EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	XXX XXX XXX	XXX	22222222222	HHH HHH HHH	HHH HHH HHH	NNN NNN NNN	NNN NNN NNN	GGG	66666666666666666666666666666666666666
EEE	XXX	XXX	000	HHH	ннн	NNN NNN	NNN	GGG	
EEE EEE EEE	XXX XX	X	CCC CCC	HHH HHH HHH	HHH HHH	NNNNN NNNNN NNNNN	NNN NNN NNN	GGG GGG	
EEEEEEEEEEE EEEEEEEEEEEE EEEEEEEEEEE	XXX XXX XXX		000 000 000		ННН	NNN NNN NNN NNN	NNN NNN NNN	GGG GGG	
EEE EEE EEE	XXX XX	X	222 222 222	HHH HHH HHH	ннн	NNN I		GGG	66666666666666666666666666666666666666
EEE	XXX	XXX	CCC	HHH	HHH HHH	NNN NNN	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	666 666	999999999 999 999
EEE EEEEEEEEEEEEEEEE EEEEEEEEEEEEEE	XXX XXX XXX	XXX	22222222222	HHH HHH HHH	HHH	NNN NNN NNN	NNN NNN NNN		666 666666 666666
EEEEEEEEEEEE	XXX	XXX	2222222222	нин	ннн	NNN	NNN		GGGGGG

EEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEEEEE	XX	22222222 22 22 22 22 22 22	RRRRRRRR RRRRRRRR RR RR RR RR RR RR		NN	AAAAAA AAAAAA AA AA AA AA AA	MM MMMM ! MMMM ! MM MM
EEEEEEEE	XX XX	00	RRRRRRRR RRRRRRRR RR RR	ţţ	NN NN NN NN NN NN	AA AA AA AA	MM MM MM
EE	XX XX	CC	RR RR RR RR	11	NN NNNN	AAAAAAAAA AA	MM MM
EEEEEEEEEE EEEEEEEEEEE	XX XX	CCCCCCCC	RR RR RR RR	†† ††	NN NN NN NN	AA AA	MM MM MM
LL LL	ШШ	\$\$\$\$\$\$\$\$\$ \$					
LL LL		SS SS SS					
ii	ii	SSSSSS					

EXC VO4

....

10

16

18

222222222233333333333344444444444555555

VAX-11 Bliss-32 V4.0-742 EEXCHNG.SRCJEXCRTNAM.B32;1

Page 1

EXC VO4

MODULE exchartnam

%TITLE 'RT-11 name manipulation routines'

IDENT = 'VO4-000', ADDRESSING_MODE (EXTERNAL=LONG_RELATIVE, NONEXTERNAL=WORD_RELATIVE)

BEGIN

! *

1.

.

1.

COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. ALL RIGHTS RESERVED.

THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY TRANSFERRED.

THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT CORPORATION.

DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.

FACILITY: EXCHANGE - Foreign volume interchange facility

ABSTRACT: Primary action routines for DELETE, RENAME and other RT-11 name manipulation routines

ENVIRONMENT: VAX/VMS User mode

AUTHOR: CW Hobbs CREATION DATE: 28-Nov-1982

MODIFIED BY:

V03-002 CWH3002 CW Hobbs 12-Apr-1984
On a boot copy, allow an optional second parameter for compatibility with the RT11 syntax. If present, make sure that it refers to the same device as the first parm.

! Include files:

MACRO \$module_name_string = 'exch\$rtnam' %; ! The require file needs to know our module name REQUIRE 'SRC\$:EXCREQ' ! facility-wide require file

```
EXCHERTNAM
                                                                                                                                                                                                                                   16-Sep-1984 01:21:55
14-Sep-1984 12:29:08
                                                                                                                                                                                                                                                                                                                        VAX-11 Bliss-32 V4.0-742
LEXCHNG.SRCJEXCRTNAM.B32;1
                                                        RT-11 name manipulation routines
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Page
V04-000
                                                        Module table of contents
                                                                                    *SBTTL 'Module table of contents'
                                                        0157
0153
0154
0155
0156
0157
0158
0159
        ! Module table of contents:
                                                                                   FORWARD ROUTINE
                                                                                                 rtnam_common,
exch$rtnam_copy_boot,
exch$rtnam_delete,
    rtnam_delete_action,
    rtnam_init
    rtnam_parse_cleanup
    rtnam_parse_next_input,
exch$rtnam_rename,
                                                                                                                                                                                                                                                                    Common action routine for delete and rename verbs Write a boot routine on an RT-11 volume Main entry routine for delete verb Secondary action routine for delete verb Inits common to rtnam and TYPE Release structures and clean up after parse fetch and expand next input parameter Main entry routine for RENAME verb Secondary action routine for RENAME verb
                                                        0160
0161
0162
0163
0164
0165
0166
0167
0168
0170
0171
0172
0173
                                                                                                                                                                                                       : NOVALUE.
                                                                                                                                                                                                      : NOVALUE.
                                                                                                                    rtnam_rename_action
                                                                                 EXTERNAL ROUTINE

exch$cmd_cli_get_integer,
exch$cmd_related_file_parse,
exch$cmd_parse_filespec,
exch$cmd_unwind_cli_syntax,
exch$copy_namb_to_filb
exch$io_rti1_read,
exch$io_rti1_write,
exch$moun_implied_mount,
exch$rti1_create_file,
exch$rti1_dircache_start
exch$rti1_dircache_stop
exch$rti1_dircache_stop
exch$rti1_dirseg_put,
exch$rti1_dirseg_put,
exch$rti1_write_cleanup
exch$rti1_write_cleanup
exch$rti1_write_prepare
exch$util_filb_allocate,
exch$util_filb_release
exch$util_file_error,
exch$util_file_error,
exch$util_radix50_from_ascii,
exch$util_radix50_from_ascii,
exch$util_rmsb_allocate,
exch$util_rriictx_allocate,
exch$util_rti1ctx_release
exch$util_rti1ctx_release
exch$util_rti1ctx_release
exch$util_vm_allocate,
exch$util_vm_allocate,
                                                                                          EXCHANGE facility routines
                                                                                                                                                                                                                                                                     Get an integer value
Parse a file specification with a related file name
Parse a file specification
Return on undefined qualifiers
Copy fields from namb to the filb
Read blocks from RT-11 volume
Write blocks to an RT-11 volume
Do a default mount
Create and connect to an RT11 file
                                                                                                                                                                                                      : NOVALUE.
                                                       0176
0177
0178
0179
0180
0181
0182
0183
                                                                                                                                                                                                                                                                     Create and connect to an RT11 file
Start directory write caching
Finish write caching and flush directory
                                                                                                                                                                                                      : NOVALUE,
                                                                                                                                                                                                      : NOVALUE,
                                                                                                                                                                                                                                                                      Write a directory segment
                                                                                                                                                                                                                                                                     Compress unnecessary entries
Find an RT11 file
Connect an RT11 file
Complete writing to an RT-11 volume
Prepare to write to an RT-11 volume
                                                        0184
0185
0186
0187
                                                                                                                                                                                                      : NOVALUE,
                                                                                                                                                                                                      : NOVALUE.
                                                                                                                                                                                                                                                                   Prepare to write to an RT-11 vol
format an fao string
Allocate file context block
Release file context block
Tell about an rms error
Release name block
Convert ascii to radix50
Allocate Files-11 control block
Release Files-11 block
Allocate RT-11 block
Release RT-11 block
                                                        0188
0189
                                                                                                                                                                                                      : NOVALUE,
                                                        0190
                                                        0191
                                                                                                                                                                                                      : NOVALUE,
                                                        0192
0193
                                                        0194
0195
                                                                                                                                                                                                      : NOVALUE.
                                                        0196
0197
                                                                                                                                                                                                     : NOVALUE,
                                                                                                                                                                                                                                                                    Allocate virtual memory
                                                        0198
                                                        0199
                                                                                     ! Equated symbols:
                                                                                     !LITERAL
                                                                                           Bound declarations:
                                                                                     !BIND
```

EXC VO4 EXCHSRTNAM V04-000 RT-11 name manipulation routines Module table of contents 16-sep-1984 01:21:55 14-sep-1984 12:29:08

VAX-11 Bliss-32 V4.0-742 LEXCHNG.SRCJEXCRTNAM.B32;1

Page (2)

EXC VO4

; 113 0208 1 ! ;

.

.

```
EXCHSRTNAM
V04-000
                                                                                              VAX-11 Bliss-32 V4.0-742
LEXCHNG.SRCJEXCRTNAM.B32;1
                 RT-11 name manipulation routines
                                                                                                                                     Page
                 rtnam_common
                         GLOBAL ROUTINE rtnam_common = BEGIN !++
                                                           %SBTTL 'rtnam_common'
  FUNCTIONAL DESCRIPTION:
                                  Common action routine for the DELETE and RENAME verbs for RT11 only
                           INPUTS:
                                  none
                            IMPLICIT INPUTS:
                                  Command parameters and qualifiers as returned from CLI$ routines. Global environment ref'd by exch$
                           OUTPUTS:
                                  none
                            IMPLICIT OUTPUTS:
                                  none
                           ROUTINE VALUE:
                                  Success or worst error encountered.
                           SIDE EFFECTS:
                                  Files may be created.
                         $dbgtrc_prefix ('rtnam_common> ');
                         LOCAL
                              abort.
                             nosys_signalled, status
                              rtnam = exch$a_gbl [excg$a_rtnam_work] : $ref_bblock
                                                                                              ! Pointer to work area
                         ! Init the name used for the input file default
                         str$copy_dx (rtnam [rtnam$q_input_sticky_name], %ASCID '');
```

```
EXCHSRTNAM
VO4-000
                       RT-11 name manipulation routines
                                                                                            16-Sep-1984 01:21:55
14-Sep-1984 12:29:08
                                                                                                                               VAX-11 Bliss-32 V4.0-742
CEXCHNG.SRCJEXCRTNAM.B32;1
                                                                                                                                                                                   Page
                       rtnam_common
    164
                                  ! Loop through the list of input file specifications. Errors will be signalled.
    166
                                  abort = false;
                                  nosys_signalled = false;
   168
169
170
177
177
177
177
178
179
181
183
184
186
187
                                  WHILE (status = rtnam_parse_next_input ())
                                                                                                     ! Get next input file parameter
                                        BEGIN
                                        LOCAL
                                              nam_len,
                                              typ_len,
tot_len
                                        BIND
                                              filb = rtnam [rtnam$a_inp_filb] : $ref_bblock,
namb = filb [filb$a_assoc_namb] : $ref_bblock,
                                             volb = filb [filb$a_assoc_volb] : $ref_bblock,
ctx = filb [filb$a_context] : $ref_bblock,
nam_nam = namb [namb$q_name] : $desc_block,
                                              nam_typ = namb [namb$q_type] : $desc_block
                                        $block_check (2, .filb, filb, 547);
$block_check (2, .namb, namb, 548);
$block_check (2, .volb, volb, 549);
$block_check (2, .ctx, rt11ctx, 550);
$logic_check (3, (.ctx [rt11ctx$a_assoc_filb] EQL .filb), 206);
$logic_check (3, (.ctx [rt11ctx$a_assoc_volb] EQL .volb), 207);
    188
189
190
191
                                                                                                                                           ! Make sure that it is what we think
    192
193
194
195
                                        ! Create the result file name in the filb
                                       196
    198
199
                                                                                                                                                      ! Length of volume ident
    ! Volume name
                                        $trace_print_fao ('looking for ''!Af''', .filb [filb$l_result_name_len], filb [filb$t_result_name]);
                                        ! Need to be able to write to the volume
                                        IF NUT .volb [volb$v_write]
                                        THEN
                                              BEGIN
                                              status = (If .rtnam [rtnam$v delete command] THEN exch$ nodellock ELSE exch$ norenlock);
$exch_signal (.status, 2, .filb [filb$l_result_name_len], filb [filb$t_result_name]);
                                              abort = true;
                                              END
                                        ELSE
                                              BEGIN
                                                Engage directory write caching on the volume
```

EXC VO4

: 1

```
EXCHSRTNAM
V04-000
                                                                                           VAX-11 Bliss-32 V4.0-742
[EXCHNG.SRC]EXCRTNAM.B32:1
                RT-11 name manipulation routines
                                                                                                                                 Page
                rtnam_common
                                 exch$rt11_dircache_start (.volb);
                                 WHILE exch$rtacp_find_file (.ctx, filb [filb$t_result_name] + .volb [volb$l_vol_ident_len], .tot_len
                                       Two kinds of files need special treatment, so filter them before we perform any action
                                     IF
                                          ! Files with a file type of .SYS will not be touched unless /SYSTEM has been given
                                         IF .ctx [rt11ctx$w_filetype] EQL r50_sys
                                             BEGIN
                                               Give a warning message the first time we pass over a .SYS file
                                             IF (NOT .rtnam [rtnam$v_q_system])
                                                  (NOT .nosys_signalled)
                                                 BEGIN
                                                 nosys_signalled = true;
                                                  Sexch_signal (exch$_nosysact);
                                              rtnam [rtnam$v_q_system] ! Block has the value of the qualifier /SYSTEM
                                         ELSE
                                                                          ! file not .SYS, file is "found"
                                         END)
                                        And now for the second class of file. Both blocks must return true for the file to be "found
                                      AND
                                          Files with a file type of .BAD will not be touched by wildcard names
                                         IF .ctx [rt11ctx$w_filetype] EQL r50_bad THEN
                                                 .namb [namb$v_wild_name]
                                                                                             If the found file was not explicitly named
                                                                                              then skip to the next file by calling
                                                  .namb [namb$v_wild_type]
                                                                                              ourselves again
                                                          ! Wildcard, block returns false, file is not "found"
                                             ELSE
                                                          ! No wildcard, block returns true, file is "found"
                                         ELSE
                                                          ! File not .BAD, file is "found"
                                         END)
                                       Now the THEN clause, we have truly found this file, now work on it
                                     THEN
```

EXI VO

```
EXCHSRTNAM
VO4-000
                                                                                        VAX-11 Bliss-32 V4.0-742
CEXCHNG.SRCJEXCRTNAM.B32;1
                RT-11 name manipulation routines
                rtnam_common
                                        BEGIN
                                        LOCAL
                                            res_buf : $bvector [filb$s_result_name],
                                                                                                 ! A buffer in which to build the act
                                            res_len;
                                          Create the result file name in the filb
                                        ! Length of volume ident plu
                                                                                                                         ! Volume nam
                                                        O, filb$s_result_name, res_buf);
                                        $debug_print_fao ('file ''!AF'' exists', .res_len, res_buf);
                                        filb [filb$v_files_found] = true;
                                                                                ! Remember that we have found a file, whether or not
                                        ! If control/c has been hit, leave the loop now
                                        IF .exch$a_gbl [excg$v_control_c]
                                        THEN
                                            BEGIN
                                            $exch_signal ($info_stat_copy (exch$_canceled));
                                            abort = true:
                                            EXITLOOP:
   304
305
306
307
                                            END:
                                          Call the appropriate secondary action routine, depending on the command
                                        IF .rtnam [rtnam$v_delete_command]
                                        THEN
                                            status = rtnam_delete_action (.res_len, res_buf)
                                        ELSE
                                            BEGIN
                                            status = rtnam_rename_action (.res_len, res_buf);
                                            SELECTONE . status OF
                                                [exch$_parseerr, exch$_norendev, exch$_badfilename] :
                                                                            abort = true;
                                                [OTHERWISE] :
                                            END:
                0416
                                        IF .abort THEN EXITLOOP;
                                        END:
                                  If no files were found, then scream and shout
                                IF NOT .filb [filb$v_files_found]
                                THEN
                                    BEGIN
                                        fao_desc : VECTOR [2, LONG];
                                    ! Turn the expanded name into a descriptor
```

EXI

: 1

```
EXCHSRTNAM
VO4-000
                                                                                                                                                                           16-Sep-1984 01:21:55
14-Sep-1984 12:29:08
                                                                                                                                                                                                                                          VAX-11 Bliss-32 V4.0-742
LEXCHNG.SRCJEXCRTNAM.832;1
                                           RT-11 name manipulation routines
                                                                                                                                                                                                                                                                                                                                          Page
                                          rtnam_common
        333333344245678901
2333333444445678901
                                                                                                fao_desc [0] = .filb [filb$l_result_name_len];
fao_desc [1] = filb [filb$t_result_name];
                                                                                                $exch_signal (exch$_filenotfound, 1, fao_desc);
                                                                                                END:
                                                                1???
                                                                                      IF .abort THEN EXITLOOP;
                                                                          rtnam parse cleanup ();
IF .abort TREN EXITLOOP;
END;
                                                                                                                                                                                               ! Release namb, clean up after parse
                                                                 RETURN .status;
                                                               END:
                                                                                                                                                                                                                          EXCH$RTNAM RT-11 name manipulation routines \v04-000\
                                                                                                                                                                                                     .TITLE
                                                                                                                                                                                                      .PSECT
                                                                                                                                                                                                                          EXCHSRTNAM_PLIT, NOWRT, 2
                                                                                                                                                                00000 P.AAB:
                                                                                                                                                                                                     .BLKB
                                                                                                                                                                                                                          17694720
                                                                                                                                     010E0000
00000000
                                                                                                                                                                00004
                                                                                                                                                                                                      .ADDRESS P.AAB
                                                                                                                                                                                                                        EXCHSCMD_CLI_GET_INTEGER
EXCHSCMD_RELATED_FILE_PARSE
EXCHSCMD_PARSE_FILESPEC
EXCHSCMD_UNWIND_CLI_SYNTAX
EXCHSCOPT_NAMB_TO_FILB
EXCHSIO_RT11_READ
EXCHSIO_RT11_WRITE
EXCHSNOON_IMPLIED_MOUNT
EXCHSRT11_CREATE_FILE
EXCHSRT11_DIRCACRE_START
EXCHSRT11_DIRCACRE_START
EXCHSRT11_DIRCACRE_START
EXCHSRT11_DIRCACRE_START
EXCHSRT11_DIRCACRE_START
EXCHSRT11_WRITE_CLEANUP
EXCHSRT11_WRITE_CLEANUP
EXCHSRT11_WRITE_PREPARE
EXCHSUTIL_FILB_RELEASE
EXCHSUTIL_FILB_RELEASE
EXCHSUTIL_RADIRSO_FROM_ASCII
EXCHSUTIL_RADIRSO_FROM_ASCII
EXCHSUTIL_RMSB_ALLOCATE
EXCHSUTIL_RMSB_RELEASE
EXCHSUTIL_RMSB_RELEASE
EXCHSUTIL_RMSB_RELEASE
EXCHSUTIL_RMSB_RELEASE
EXCHSUTIL_RMSB_RELEASE
EXCHSUTIL_RMSB_RELEASE
EXCHSUTIL_RT11CTX_ALLOCATE
EXCHSUTIL_RT11CTX_RELEASE
EXCHSUTIL_VM_ALLOCATE
EXCHSUTIL_VM_ALLOCATE
EXCHSUTIL_VM_ALLOCATE
EXCHSUTIL_VM_ALLOCATE
EXCHSUTIL_VM_ALLOCATE
EXCHSUTIL_VM_ALLOCATE
EXCHSUTIL_VM_ALLOCATE
EXCHSA_GBE, STRSCOPY_DX
                                                                                                                                                                                                     .EXTRN
                                                                                                                                                                                                      .EXTRN
                                                                                                                                                                                                     .EXTRN
                                                                                                                                                                                                     .EXTRN
                                                                                                                                                                                                     .EXTRN
                                                                                                                                                                                                      .EXTRN
                                                                                                                                                                                                      .EXTRN
                                                                                                                                                                                                      .EXTRN
                                                                                                                                                                                                      .EXTRN
                                                                                                                                                                                                      .EXTRN
                                                                                                                                                                                                      .EXTRN
                                                                                                                                                                                                      .EXTRN
                                                                                                                                                                                                       EXTRN
                                                                                                                                                                                                      .EXTRN
                                                                                                                                                                                                       EXTRN
                                                                                                                                                                                                      .EXTRN
                                                                                                                                                                                                      .EXTRN
                                                                                                                                                                                                       EXTRN
                                                                                                                                                                                                       EXTRN
                                                                                                                                                                                                      .EXTRN
                                                                                                                                                                                                      .EXTRN
                                                                                                                                                                                                      .EXTRN
                                                                                                                                                                                                      .EXTRN
                                                                                                                                                                                                     .EXTRN
                                                                                                                                                                                                      .EXTRN
                                                                                                                                                                                                      .EXTRN
                                                                                                                                                                                                      .EXTRN
                                                                                                                                                                                                      .EXTRN
```

EX.

3A

EXI

Ommo	n					14	-Sep-19	984 12:29	:08	[EXCHNG.SRC]EXCRTNAM.B32;1	(4)
								EXTRN EXTRN EXTRN EXTRN EXTRN EXTRN EXTRN	EXCIEXCIEXCIEXCIEXCIEXCIEXCIEXCIEXCIEXCI	HSUTIL BLOCK_CHECK HS_BADEOGIC, EXCHS_NODELLOCK HS_NORENLOCK HS_NOSYSACT, EXCHS_CANCELED HS_PARSEERR, EXCHS_NORENDEV HS_BADFILENAME HS_FILENOTFOUND	
								.PSECT	EXC	HSRTNAM_CODE, NOWRT, 2	
				0	FFC	00000		.ENTRY	RTN	AM_COMMON, Save R2,R3,R4,R5,R6,R7,R8,R9,-;	0209
		SE	FED8	CE	9E	00002		MOVAB	-296	RT1 (SP) SP	
50	00000000G	EF	0000	18 CF	C1 9F	00007 0000F		ADDL3 PUSHAB	#24 P.A	, EXCHSA_GBL, RO	0251
		58	14	60 A8	00 9f	00013		MOVL PUSHAB	(PO	O PR	
	000000006	00		02	FB	00019		CALLS	W2,	STR\$COPY_DX	0340
	0000v	CF	14	AE 00 50	7C FB	00023	18:	CALLS CLRQ CALLS	WO.	RTNAM PARSE NEXT INPUT	0260
	10	AE 03	10	2850	DO E8 31	00028 0002C 00030		BLBS	STÁ	R8) STR\$COPY_DX YS_SIGNALED RTNAM_PARSE_NEXT_INPUT STATUS TUS, 28	
		56	24	2850 88	31	00030	28:	BRW	613	R8), R6	0272
50	000	AE	24 18 00000050	A6 8F	DO DO C1	00037 0003¢		MOVL ADDL3	24(1	R6), 12(SP) , 12(SP), R0	0275
50		SA AE	00000058	60 8F	ЭE	00045		MOVAB	(R0)) . R10	0274
30		59		60	9E			ADDL3 MOVAB	(RO	12(SP), R0 R9 295674, R2	0276
		51	035B00FA 0223	60 8F 8F	90 30	00054 0005B		MOVZWL	#547	795674, R2 7, R1 R0	0279
		50	000000006	56	D0 16	00060		MOVL JSB	R6.	RO ISUTIL BLOCK_CHECK	
		52 51 50	010A00F7 0224	EF 8F	00 30	00069		MOVZWL	#174	32823, R2 3, R1	0280
		50	00	AE EF	DQ	00075		MOVL	12(5	SP) . RO :	
		57	00000000G	A6	16 00 00 30	00079 0007F		MOVL	28 (F	SUTIL_BLOCK_CHECK	0281
		52	041B00F3 0225	8F	DO	00083 0008A		MOVZWL	#68! #549	378579, R2	
		51 50	000000006	57 EF	DO 16	0008F 00092		MOVL	R7.	RO SUTTI BLOCK CHECK	
		58	008200F4	A6 8F	DO	00098		MOVL	32 (F	R6), RT1	0282
		51	0559	8F	90 30	0009C		MOVZWL	#550), R1	
		50	0000000G	5B EF	D0	000AB		MOVL JSB	EXC	R6) R7 378579, R2 378579, R2 378579, R1 R0 4\$UTIL_BLOCK_CHECK R6), R11 R9924, R2 3, R1 R0 4\$UTIL_BLOCK_CHECK	
	08 04	AE AE AF		6A	3C	000B1 000B5		MOVZWL	(R1()), NAM LEN :	0288
6E	08	AE	04	AE 6E A6 13	C1	000B9 000BF		ADDL3	TOT	TYP CEN LEN, RAM LEN, TOT LEN LEN, 101(R7), 58(R6) (6), #256	0290
***	00000100	8F	3A	A6	D1	00005		CMPL BLEQU	58(16), #256	0292
		7E	DO	8F 01	9A	000C5 000CD 000CF		MOVZBL	1208	3, -(SP)	
	000000006	00	0000000G	8F 03	DD DD FB	000D5		PUSHL PUSHL CALLS	#EXI	H\$ BADLOGIC LIB\$STOP	
	000000006	00	00000000G	01 8F 03	DD DD FB	000D5		PUSHL PUSHL CALLS	#EXC	CHS BADLOGIC	

EXCHSRINAL VO4-000	1	RT-11 nartham_co	ame man	ipulation	routines			6 8 16-Sep- 14-Sep-	1984 01:21 1984 12:29	1:55 VAX-11 Bliss-32 V4.0-742 9:08 [EXCHNG.SRC]EXCRINAM.B32;1	Page 1(
50	AE		00	20 24 10 69	AE 010 AE 5 AE 2 A7 6	8FA6AFA77 BEA777 AEE4AEE501 BEA777 AEE4AEE501 BEA62E64 O1457	3C 000E 9E 000E 00 000E 2C 000F 000F	2	MOVZWL MOVAB MOVL MOVC5	36(SP), 28(SP) 101(R7), 105(R7), #0, 32(SP), @28(SP	029
20	AE		00	1 C 2 O 0 4	AE 6 6 BA 0	A7 A7 AE BE	18 000F C0 000F C2 0010 2C 0010 0011	8	ADDL2 SUBL2 MOVC5	4\$ 101(R7), 28(SP) 101(R7), 32(SP) NAM_LEN, 04(R10), #0, 32(SP), 028(SP)	
20	AE		00	1 C 20 04	AE 00 AE 00 B9 01	AE AE AE	18 0011 C0 0011 C2 0011 2C 0011	4 9 E	ADDL2 SUBL2 MOVC5	4\$ NAM_LEN, 28(SP) NAM_LEN, 32(SP) TYP_LEN, 34(R9), #0, 32(SP), 328(SP)	
			30 0A	48 20 10	A7 A8 AE 0000000	05 01 06 8F	E0 0012 E1 0012 D0 0013 11 0013	8 48: D	BBS BBC MOVL BRB	#5, 72(R7), 7\$ #1, 32(R8), 5\$ #EXCH\$_NODELLOCK, STATUS 6\$	030 030
				10	AE 0000000	G 8F AE A6	DO 0013 DD 0014 DD 0014 DD 0014	C 58: 4 68: 7	MOVL PUSHL PUSHL PUSHL PUSHL	#EXCHS_NORENLOCK, STATUS 36(SP) 58(R6) #2	030
			00	000000G 18	00 AE	04 01 014C	DD 0014 FB 0014 D0 0015 31 0015	C F 6	PUSHL CALLS MOVL BRW	STATUS #4. LIB\$SIGNAL #1. ABORT 20\$ R?	030
			00	0000006	EF	01	FR 0015	D 78:	PUSHL	R7 #1, EXCHSRT11_DIRCACHE_START	030
			50		56 6	6E A7 A0 5B 03	DD 0016 C1 0016 9F 0016 DD 0017	6 8\$: 8 0	CALLS PUSHL ADDL3 PUSHAB PUSHL	TOT LEN 101(R7), R6, R0 90(R0) R11	0310
			00	000000G	EF 03	50	E8 0017	9	BLBS	#3, EXCHSRTACP_FIND_FILE R0, 9\$ 19\$	
				7ABB	8F 3	0109 AB	B1 0017	F 98.	BRW CMPW BNEQ	62(R11), #51419	0320
			1A	1C 14	A8 11 AE 0000000	01	12 0018 E0 0018 E8 0018 D0 0019 DD 0019 FB 0019 E1 001A	7	BBS BLBS MOVL PUSHL CALLS	11\$ #3, 28(R8), 11\$ NOSYS_SIGNALLED, 10\$ #1, NOSYS_SIGNALLED #EXCH\$_NOSYSACT	033 033 033 033
			CO	000000G 1 C 0 C A C	00 A8 8F 3	01 03 AB	E1 001A B1 001A	1 108: 6 118:	CALLS BBC CMPW	#1, LIBSSIGNAL #3, 28(R8), 8\$ 62(R11), #3244	0340 035
			50	00	AE 0000006	1A 8F	12 001A	C F	ADDL3	12\$ #108, 12(SP), RO	0356
			AB 51 9E	OC	AE 0000006	01 8f	E0 001B	7 B 8 128:	BBS ADDL3	#1 (RO) 85 #108, 12(SP), R1	0358
		20	AE	08 65 000100	61 AE 4: A7 0: 8F 2:	AB AE	C1 001A E0 001B C1 001B E0 001C D0 001C C1 001C D1 001D 1B 001D	8 128:	BBS MOVL ADDL3 CMPL	#3.28(R8), 118 NOSYS SIGNALLED, 108 #1, NOSYS SIGNALLED #EXCH\$ NOSYSACT #1, LIB\$SIGNAL #3.28(R8), 8\$ 62(R11), #3244 12\$ #108, 12(SP), R0 #108, 12(SP), R1 #2.(R1), 8\$ 70(R11), NAM LEN NAM LEN, 101(R7), RES_LEN RES_LEN, #256 13\$ #125, -(SP)	0378 0379 0380
					7E 7	8F	9A 001D DD 001E DD 001E	Ě	CMPL BLEQU MOVZBL PUSHL	#125, -(SP)	
					0000000)G 8F	00 001E	4	PUSHL	#EXCHS_BADLOGIC	

EXI

XCHSRTNAM VO4-000	RT-11 name of	manipulation	routines	5	1	H 8 6-Sep-1 4-Sep-1	984 01:21: 984 12:29:	VAX-11 BLiss-32 V4.0-742 EEXCHNG.SRCJEXCRTNAM.B32;1	Page 1
		00000000G		03 100 8F	FB 001EA			#3, LIB\$STOP #256, R10 RES_BUF, R9 101(R7), 105(R7), #0, R10, (R9)	038
SA	00	69	ÄŽ	28 AE 65 A7 69	3C 001F1 9E 001F6 2C 001FA 00201				
5A	00	54	59 5A AB	65 A7 65 A7 08 AE 69 08	18 00202 C0 00204 C2 00208 2C 0020C		BGEQ ADDL2 SUBL2 MOVC5	14\$ 101(R7), R9 101(R7), R10 NAM_LEN, 84(R11), #0, R10, (R9)	
50	03	28	A6 1B 000000 50 000000	000G FF 000G 8F	88 00214 E9 00218 D0 0021F F0 00226	148:	BISB2 BLBC MOVL INSV PUSHL	#8, 43(R6) aEXCH\$A_GBL, 15\$ #EXCH\$_CANCELED, STATUS2 #3, #0, #3, STATUS2	038 039 039
		00000000G 18	00 AE	50 01 01	DD 0022B FB 0022D DO 00234		MOVL	#3, #0 #3, STATUS2 STATUS2 #1, LIB\$SIGNAL #1, ABORT	039
	11			28 AE 02 50	E1 0023A 9F 0023F DD 00242	15\$:	BRB BBC PUSHAB PUSHL	19\$ #1, 32(R8), 16\$ RES_BUF RES_LEN	039 039 040 040
		0000V 10	CF AE	31	00 0024A 11 0024E 9F 00250	16\$:	PUSHL CALLS MOVL BRB PUSHAB	#2, RTNAM_DELETE_ACTION RO, STATUS 18\$ RES_BUF RES_LEN	040
		0000V 10 0000000G	CF AE 8F	28 AE 24 AE 02 50 10 AE 14	DD 00253 FB 00256 D0 0025B D1 0025F		CALLS MOVL CMPL	#2, RINAM_RENAME_ACTION RO, STATUS STATUS, #EXCH\$_PARSEERR	040
		00000000G	8F	10 AE 0A 10 AE	13 00267 D1 00269 13 00271 D1 00273		BEQL CMPL BEQL CMPL	17\$ STATUS, #EXCHS_NORENDEV 17\$ STATUS, #EXCHS_BADFILENAME	• • • •
		18	AE 03	18 AE	12 0027B D0 0027D E8 00281	17\$: 18\$:	BNEQ MOVL BLBS BRW	18\$ #1, ABORT ABORT, 19\$	041 041
	10	2B F 8 F C	A6 AD AD	FEDE 03 3A A6 24 AE F8 AD 01 0006 8F	31 00285 E0 00288 D0 0028D D0 00292 9F 00297 DD 0029A	198:	BBS MOVL MOVL PUSHAB	8\$ #3, 43(R6), 20\$ 58(R6), FAO_DESC 36(SP), FAO_DESC+4 FAO_DESC #1	042 042 043 043
		000000000 0000V	000000 CF 03	18 AE	DD 0029C FB 002A2 FB 002A9	208:	PUSHL PUSHL CALLS CALLS BLBS	#EXCHS FILENOTFOUND #3, LIBSSIGNAL #0, RTNAM PARSE_CLEANUP ABORT, 218 15	043 044
			50	10 AE	E8 002AE 31 002B2 D0 002B5 04 002B9	215:	BRW MOVL RET	STATUS, RO	044

EVO

```
EXCHSRTNAM
VO4-000
                                                                       16-Sep-1984 01:21:55
14-Sep-1984 12:29:08
                 RT-11 name manipulation routines
                                                                                                 VAX-11 Bliss-32 V4.0-742
LEXCHNG.SRCJEXCRINAM.B32;1
                 exchartnam_copy_boot
                          GLOBAL ROUTINE exch*rtnam_copy_boot = %SBTTL 'exch*rtnam_copy_boot'
   BEGIN
                           !++
                            FUNCTIONAL DESCRIPTION:
                                   Write a boot block on the RT-11 volume.
                            INPUTS:
                                   none
                            IMPLICIT INPUTS:
                                   Command parameters and qualifiers as returned from CLIS routines. Global environment ref'd by exchS
                            OUTPUTS:
                                   none
                            IMPLICIT OUTPUTS:
                                   none
                            ROUTINE VALUE:
                                   Success or worst error encountered.
                            SIDE EFFECTS:
                                   Block 0 and 2-5 of the target volume will be written
                          $dbgtrc_prefix ('rtnam_copy_boot> ');
                          LOCAL
                              check,
buf: Sbvector [512+5],
                 0481
0482
0483
0484
0485
0486
0487
0488
                                                                             ! five block buffer for monitor file blocks
                               status
                          BIND
                               rtnam = exch$a_gbl [excg$a_rtnam_work] : $ref_bblock ! Pointer to work area
                            Allocate and/or initialize the work area
                          rtnam_init ();
   400
```

EXI VO

```
EX
```

```
EXCHSRTNAM
                                                                                                 16-Sep-1984 01:21:55
14-Sep-1984 12:29:08
                        RT-11 name manipulation routines
                                                                                                                                     VAX-11 Bliss-32 V4.0-742
LEXCHNG.SRCJEXCRTNAM.B32;1
V04-000
                        exchartnam_copy_boot
   Get the monitor file specification. Errors will be signalled.
                        str$copy_dx (rtnam [rtnam$q_input_sticky_name], %ASCID '.SYS'); ! Default file type to .SYS
IF (status = rtnam_parse_next_input ())
THEN
                                          BEGIN
                                          LOCAL
                                                out_file : $desc_block,
out_namb : $ref_bblock,
nam_len,
typ_len,
tot_len
                                          BIND
                                               filb = rtnam [rtnam$a_inp_filb] : $ref_bblock,
namb = filb [filb$a_assoc_namb] : $ref_bblock,
volb = filb [filb$a_assoc_volb] : $ref_bblock,
ctx = filb [filb$a_context] : $ref_bblock,
nam_nam = namb [namb$q_name] : $desc_block,
nam_typ = namb [namb$q_type] : $desc_block
                                          $block_check (2. filb, filb, 638);
$block_check (2. namb, namb, 639);
$block_check (2. volb, volb, 640);
$block_check (2. ctx, rt11ctx, 641
$logic_check (3. (.ctx [rt11ctx$a_a
                                          $block_check (2, .ctx, rt11ctx, 641);
$logic_check (3, (.ctx [rt11ctx$a_assoc_filb] EQL .filb), 273);
$logic_check (3, (.ctx [rt11ctx$a_assoc_volb] EQL .volb), 274);
                                                                                                                                                  ! Make sure that it is what we think
                                             See if the optional output parameter is present. If so, verify that it refers to the same volb as
                                             the input. This lets us keep the syntax for COPY /BOOT compatible with RT-11.
                                          $dyn_str_desc_init (out_file);
                                           IF (Status = exchScmd_parse_filespec (%ASCID 'OUTPUT', 0, 0, out_file, out_namb))
                                          THEN
                                                BEGIN
                                                REGISTER
                                                      ignore,
                                                out_volb;
out_volb = .out_namb [namb$a_assoc_volb];
ignore = (0 NEQ (.out_namb [namb$l_nameflags] AND (namb$m_explicit_node OR namb$m_explicit_version)
                                                                                        OR namb$m_explicit_name OR namb$m_explicit_type OR namb$m_explicit_version
                                                exchSutil_namb_release (.out_namb);
                                                IF .out_volb NEQ .volb
                                                                                                             ! If volb addresses different it is not the same device
                                                      BEGIN
                                                      status = exchs_nocopyboot;
                                                      Sexch_signal (.status, 0, exch$_notsamedev);
                                                      rtnam_parse_cleanup ();
                                                      RETURN .status;
                                                      END:
                                                 IF .ignore
                                                 THEN
                                                      $exch_signal (exch$_devonly, 1, out_file);
                                                END:
    458
```

```
EX
```

```
EXCHSRTNAM
                      RT-11 name manipulation routines
                                                                                         16-Sep-1984 01:21:55
14-Sep-1984 12:29:08
                                                                                                                          VAX-11 Bliss-32 V4.0-742
LEXCHNG.SRCJEXCRTNAM.B32:1
                                                                                                                                                                             Page 14
V04-000
                      exch$rtnam_copy_boot
                                         Create the result file name in the filb, concatenate name and type together
    460
                                      nam_len = .nam_nam [dsc$w_length];
typ_len = .nam_typ [dsc$w_length];
   463
465
465
466
468
471
473
475
477
                                      tot len = .nam len + .typ len;
filb [filb$| result name [en] = .volb [volb$| vol ident len] + .tot len; ! Length of
$logic check (2, (.filb [filb$| result name len] [EQU filb$s result_name), 289);
(H$COP$ (.volb [volb$| vol ident len], volb [volb$t vol ident],
.nam len, .nam nam [dsc$a pointer], .typ len, .nam_typ [dsc$a_pointer],
0, filb$s_result_name, filb [filb$t_result_name]);
                                                                                                                                                 ! Length of volume ident
                                                                                                                                                            ! Volume name
                                       $trace_print_fao ('looking for ''!AF''', .filb [filb$i_result_name_len], filb [filb$t_result_name]);
                                         Need to be able to write to the volume
                                       IF NOT .volb [volb$v_write]
                                       THEN
                      0567
                                            BEGIN
                                            status = exch$_nocopyboot;
$exch_signal (.status, 0, $warning_stat_copy (exch$_writelock),
                      0568
                     0569
                      0570
                                                                  2, .volb [volb$l_vol_ident_len], volb [volb$t_vol_ident]);
    480
                      0571
   481
482
483
                     0572
                                         We can write, now see if we can find the monitor file
                      0575
                                      ELSE
                                            BEGIN
                      0578
                                            IF exch$rtacp_find_file (.ctx, filb [filb$t_result_name] + .volb [volb$l_vol_ident_len], .tot_len)
    488
                                            THEN
   489
                                                 BEGIN
   490
491
                                                    Remember the status of the read-check bit, then force read-checking on
   492
                                                  check = .volb [volb$v read check]:
    494
                                                  volb [volb$v_read_check] = true;
   495
   496
                                                    Now we can do what we came here to do, read the first 5 blocks of the monitor file
                     U589 5 $logic_check (0, (ctx$k_buffer_blocks GEQU 5), 314); ! Need a big enough buffer for read-
assumption 314 verified during compilation
0590 5 status = exchsio cell cond ( with
   498
                   L 0589
  IPRINT:
                                                  status = exch$io_rt11_read (.volb, .ctx [rt11ctx$l_start_block], 5, buf [0]);
volb [volb$v_read_check] = .check; ! Restore check state
   499
    500
                      0591
                                                  IF NOT .status
   502
503
504
505
506
507
508
509
510
                                                  THEN
                      0594
                                                       RETURN .status;
                      0596
                                                    Remember the status of the write-check bit, then force write-checking on
                      0597
                      0598
                                                  check = .volb [volb$v_write_check];
                      0599
                                                  volb [volb$v_write_check] = true;
                      0600
                      0601
0602
0603
0604
0605
                                                  ! Write the first block of the monitor file to block 0 of the volume
    511
                                                  IF NOT (status = exch$io_rt11_write (.volb, 0, 1, buf [0]))
                                                  THEN
   514
                                                       BEGIN
```

```
16-Sep-1984 01:21:55
14-Sep-1984 12:29:08
EXCHERTNAM
                                                                                                              VAX-11 Bliss-32 V4.0-742 

[EXCHNG.SRCJEXCRTNAM.B32;1
                    RT-11 name manipulation routines
                                                                                                                                                            Page 15
V04-000
                    exch$rtnam_copy_boot
                                                                                                                                                                  (6)
                                                  volb [volb$v_write_check] = .check;
                                                                                                    ! Restore the write-checking state
                   RETURN .status;
                                                  END:
   Write the next four blocks of the monitor file to blocks 2 to 5 of the volume
                                             status = exch$io_rt11_write (.volb, 2, 4, buf [512]);
volb [volb$v_write_check] = .check; ! Restore the write-checking state
                                             IF NOT .status
                                             THEN
                                                  RETURN .status;
                                               Log the action if requested
                                             IF .rtnam [rtnam$v_q_log]
                                                  $exch_signal (exch$_copyboot, 4, .ctx [rt11ctx$l_exp_fullname_len], ctx [rt11ctx$t_exp_fulln
.volb [volb$l_vol_ident_len], volb [volb$t_vol_ident]);
                                             END
                                          The monitor file was not found, scream and shout
                                        ELSE
                                             BEGIN
                                             LOCAL
                                                  fao_desc : VECTOR [2, LONG];
                                               Turn the expanded name into a descriptor
                                             fao_desc [0] = .filb [filb$l_result_name_len];
fao_desc [1] = filb [filb$t_result_name];
                                             $exch_signal (exch$_filenotfound, 1, fao_desc);
                                             END:
                                        END:
                   0642
                                                                                          ! Release namb, clean up after parse
                                   rtnam_parse_cleanup ();
                    0644
                    0645
                   0646
0647
                              RETURN .status;
                              END;
                                                                                             .PSECT EXCHSRTNAM_PLIT, NOWRT, 2
                                                                           00008 P.AAD:
0000C P.AAC:
00010
00014 P.AAF:
                                                              53 2E
010E0004
                                                                                             .ASCII
                                                            59
                                                                                                      17694724
                                                               00000000
                                                                                             ADDRESS P. AAD
                                                                                                       \OUTPUT\<0><0>
                                        00
                                            54 55 50 54
                                                                                             .ASCII
                                                                           0001C
00020
                                                                                   P.AAE:
                                                                                                       17694726
                                                               010E0006
                                                                                             . LONG
                                                               00000000
                                                                                             ADDRESS P. AAF
                                                                                                      EXCHSGQ DYN STR TEMPLATE EXCHS NOCOPTBOOT
```

.EXTRN

.EXTRN

EXCHS NOTSAMEDEV

EX

Page 16 (6)

EXCHSRTNAM V04-000

EXTRN	EXCHS DEVONLY	EXCHS_WRITELOCK
.EXTRN	EXCHS COPYBOOT	_

.PSECT EXCHSRTNAM	CODE, NOWRT, 2
-------------------	----------------

								.PSECT	EXCHSRTNAM_CODE, NOWRT, 2	1
				OFF	C 00			.ENTRY	EXCHSRTNAM COPY BOOT, Save R2,R3,R4,R5,R6,-	0445
52	00000000G	SE EF CF	F5D0	18 0 00 F	B 00	002 007 00F		MOVAB ADDL3 CALLS	EXCH\$RTNAM_COPY_BOOT, Save R2,R3,R4,R5,R6,- R7,R8,R9,RT0,R1T -2608(SP), SP #24, EXCH\$A_GBL, R2 #0, RTNAM_INIT	0487 0492
50	08	AE AE	0000	62 D	F 00	014 018 01C		CALLS PUSHAB MOVL ADDL3	#0, RTNAM_INIT P.AAC (R2), 8(SP) #20, 8(SP), R0	0495
	000000000 0000V	00 CF 6E 03		50 D	D 00 B 00 B 00 0 00 8 00	023 02A 02F 032		PUSHL CALLS CALLS MOVL BLBS	RO #2, STR\$COPY_DX #0, RTNAM_PARSE_NEXT_INPUT RO, STATUS STATUS, 1\$	0496
50	04	AE		024B 3	1 00		15:	ADDL3	15\$ #36, 4(SP), RO (RO), R6	0509
5A 59	18 18	56 A6 52 51 50	00000050 00000058 035B00FA 027E	8F 0	1 00 1 00 0 00 C 00	03D 040 049 052 059		MOVL ADDL 3 ADDL 3 MOVL MOVZWL	#80, 24(R6), R10 #88, 24(R6), R9 #56295674, R2 #638, R1 R6, R0 EXCH\$UTIL_BLOCK_CHECK #17432823, R2	0512 0513 0516
		52 51 50	00000000G 010A00F7 027F 18	8F 0 8F 3 86 0	6 00 0 00 C 00 0 00	05E 061 067 06E 073		MOVL JSB MOVL MOVZUL MOVL	EXCHSUTIL_BLOCK_CHECK #17432823, R2 #639, R1 24(R6), R0	0517
		57 52 51 50	000000006 10 041800F3 0280	8F 3	0 00 0 00 C 00 0 00	077 070 081 088 080		JSB MOVL MOVZWL MOVL	#639, R1 24(R6), R0 EXCH\$UTIL_BLOCK_CHECK 28(R6), R7 #68878579, R2 #640, R1 R7, R0	0518
		5B 52 51 50	000000006 20 008200F4 0281	8F D	6 00 0 00 0 00 C 00	090 096 09A 0A1		JSB MOVL MOVZWL MOVZWL	EXCHSUTIL_BLOCK_CHECK 32(R6), RT1 #8519924, R2 #641, R1 R11, R0	0519
	28	AE	000000006 000000006 10 20	EF 1 EF 7 AE 9 AE 9	6 00	OA9 OAF OB7 OBA OBD		JSB MOVQ PUSHAB PUSHAB CLRQ PUSHAB	EXCHSUTIL_BLOCK_CHECK TMPL, DESC OUT_NAMB OUT_FILE -(SP)	0526 0527
	000000006	EF 6E	0000*	05 F	F OO	OBF OC3 OCA OCD		MOVL	#5. FXCHSCMD PARSE FILESPEC	
		4F 50 53	1 C	6E E AE D D D D D D D D D D D D D D D D D	9 00 0 00 0 00 4 00	000 004		BLBC MOVL	RO. STATUS STATUS, 4\$ OUT NAMB, RO 116(RO), OUT_VOLB	0533
	0F40	8F	60	51 D AO B O2 1	3 000	DD8 DDA DEO		MOVL CLRL BITU BEQL	108(RO), #3904	0534
		52		51 D	6 00 0 00 D 00	0E2 0E4 0E7	2\$:	INCL MOVL PUSHL	2\$ R1 R1, IGNORE R0	0536

EXCHERTNAM VO4-000		RT-11 na	ame i	manipulatio copy_boot	n r	outines		N 16 14	-Sep-	1984 01:21 1984 12:29		17
				0000000G	EF 57	01 53	F	000E9 000F0 000F3		CALLS	#1, EXCHSUTIL_NAMB_RELEASE OUT_VOLB, R7	0537
					6E	00000000G 8F 7E 08 AE	000	000F5 000FC 00102 00104		MOVL PUSHL CLRL PUSHL	WEXCHS_NOCOPYBOOT, STATUS WEXCHS_NOTSAMEDEV -(SP) STATUS	0540 0541
					12	016D 52 28 AE	9	0010D	3\$:	BRW BLBC PUSHAB PUSHL	13\$ IGNORE, 4\$ OUT_FILE	0545 0547
		14 3A	AE A6	00000000G 18 10 18 65 00000100	OO AE AE AF AF	000000006 8F 03 6A 69 10 AE 14 AE 3A A6	DI DI 31 31	0011f 00123 00127 0012E 00135	48:	PUSHL CALLS MOVZWL MOVZWL ADDL3 ADDL3	WEXCHS DEVONLY	0553 0553 0554 0555
08	AE		00	000000006 08 0C 69	7E 00 AE AE 58 A7	000000006 8F 03 0100 8F 5A A6 0C AE 65 A7	31 D1 D1 F1 30 91	0013F 00144 00146 0014C 00153 00159 0015E	5\$:	CMPL BLEQU MOVZWL PUSHL PUSHL CALLS MOVZWL MOVAB MOVL MOVC5	W289, -(SP) W1 WEXCH\$ BADLOGIC W3. LIB\$STOP	0557 0559
08	AE		00	08	58 AE BA	68 26 65 65 A7 18 AE 68	18	0016D 00171 00176		BGEQ ADDL2 SUBL2 MOVC5	6\$ 101(R7), R8 101(R7), 8(SP) NAM_LEN, 24(R10), #0, 8(SP), (R8)	
08	AE		00	08	58 AE B9		18			BGEQ ADDL2 SUBL2 MOVC5	6\$ NAM_LEN, R8 NAM_LEN, 8(SP) TYP_LEN, 24(R9), #0, 8(SP), (R8)	
			23		52 62 6E	18 AE 18 AE 10 AE 48 A7 05 05 69 A7 65 A7 0000000000 BF 07 50 7E 14 AE 65 A7 5A 5B 03 50	91 00 91 00 00 00 87	00193 00197 00198 001A2 001A5	6\$:	MOVAB BBS MOVL PUSHAB PUSHL	#5. (R2). 7\$	056! 056! 057(
					50 50	000000000 8F 07 50 7E	D4	001A8 0001AA 0001B1 0001B4 0001B6		PUSHL PUSHL MOVL BICB2 PUSHL CLRL PUSHL BRW	WEXCHS WRITELOCK, STATUS2 W7, STATUS2 STATUS2 -(SP) STATUS 115	
			50		56	14 AE 009B 14 AE 65 A7 5A A0	DI 01	001B8 001BB 001BE	7\$:	PUSHL BRW PUSHL ADDL3 PUSHAB PUSHL CALLS BLBS BRW	STATUS 118 TOT LEN 101TR7), R6, R0 90(R0) R11 #3, EXCH\$RTACP_FIND_FILE R0, 8\$ 12\$	0578
				000000006	EF 03	58 03 50 008A	FI	001C6 001C9 001CB 001D2 001D2		PUSHL CALLS BLBS	R11 #3. EXCHSRTACP_FIND_FILE R0. 8\$	

EX

EXCHSRTNAM VO4-000	RT-11 name manipulati exch\$rtnam_copy_boot	on routines	8 9 16-Sep-1984 01:21:55 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:29:08 [EXCHNG.SRC]EXCRTNAM.B32;1	Page 18
53	62	01 62 30 72	01 EF 001D8 8\$: EXTZV #1. #1. (R2), CHECK 02 88 001DD BISB2 #2, (R2) AE 9F 001E0 PUSHAB BUF 05 DD 001E3 PUSHL #5 AB DD 001E5 PUSHL 114(R11)	0584 0585 0590
	000000000	EF 6E	57 DD 001E8 PUSHL R7 04 FB 001EA CALLS #4, EXCH\$10_RT11_READ 50 DO 001F1 MOVL RO, STATUS	
62	01	01	50 DO 001F1 MOVL RO, STATUS 53 FO 001F4 INSV CHECK, #1, #1, (R2) 6E E9 001F9 BLBC STATUS, 10\$ 02 EF 001FC EXTZY #2, #1, (R2), CHECK	059
53	62	3E 01 62 30	04 FB 001EA	059 059 059 059 060
	00000000	EF	57 DD 0020B PUSHL R7 04 FB 0020D CALLS #4, EXCH\$10_RT11_WRITE	
62	01	6E 07 02	04 FB 0020D CALLS #4, EXCH\$10_RT11_WRITE 50 D0 00214 MOVL RO, STATUS 6E EB 00217 BLBS STATUS, 9\$ 53 FO 0021A INSV CHECK, #2, #1, (R2) 62 11 0021F BRB 15\$	060
		0230	CE 9F 00221 98: PUSHAB BUF+512	0600 0600 0610
	00000000	EF	04 FR 0022R CALLS #4 FYCHSTO PT11 UPITE	
62	01	6E 02	04 FB 0022B CALLS #4, EXCHSIO_RT11_WRITE 50 D0 00232 MOVL RO, STATUS 53 FO 00235 INSV CHECK, #2, #1, (R2) 6E E9 0023A 108: BLBC STATUS, 15\$	061
	52 04	46 AE 39	6E E9 0023A 108: BLBC STATUS, 158 1C C1 0023D ADDL3 #28, 4(SP), R2	061 061 062
		69 65 54 46	50 D0 00232	062
	000000006	000000000	04 DD 00251 PUSHL #4 8F DD 00253 PUSHL #EXCH\$ COPYBOOT 06 FB 00259 118: CALLS #6, LIB\$SIGNAL	•
			1C 11 00260 BRB 14\$	0578
	20	AE OC 20	AE DO 00267 MOVL 12(SP), FAO_DESC+4 AE 9F 0026C PUSHAB FAO_DESC	0635 0636 0638
	000000006	000000000	01 DD 0026F PUSHL #1 BF DD 00271 PUSHL #EXCH\$ FILENOTFOUND 03 FB 00277 138: CALLS #3, LIB\$SIGNAL	•
	00000	CF 50	03 FB 00277 138: CALLS #3, LIB\$SIGNAL 00 FB 0027E 148: CALLS #0, RINAM PARSE_CLEANUP 6E DO 00283 158: MOVL STATUS, RU 04 00286 RET	0643 0646 0647

```
EXCHSRTNAM
VO4-000
                                                                                       16-Sep-1984 01:21:55
14-Sep-1984 12:29:08
                                                                                                                       VAX-11 Bliss-32 V4.0-742
LEXCHNG.SRCJEXCRTNAM.B32:1
                     RT-11 name manipulation routines
                     exch$rtnam_delete
                                GLOBAL ROUTINE exch$rtnam_delete = BEGIN
                     06489
064512345665666666666666671234566789
06688456789
06686666666671234566789
06688456789
06688456789
06688789
06688789
06688789
                                                                                      %SBTTL 'exch$rtnam_delete'
    560
    561
562
563
                                   FUNCTIONAL DESCRIPTION:
                                           Entry routine for the DELETE verb for RT11 only
    566
567
568
569
570
                                   INPUTS:
                                           none
                                   IMPLICIT INPUTS:
                                           Command parameters and qualifiers as returned from CLI$ routines. Global environment ref'd by exch$
                                   OUTPUTS:
                                           none
                                   IMPLICIT OUTPUTS:
    580
                                           none
                                   ROUTINE VALUE:
    584
                                           Success or worst error encountered.
    586
587
                                   SIDE EFFECTS:
    588
                                           files may be deleted.
    589
    590
    591
                                $dbgtrc_prefix ('rtnam_delete> ');
    592
593
                                LOCAL
    594
                                     rtnam : $ref_bblock
                                                                                                 ! Pointer to work area
    595
    596
597
    598
599
                                  Allocate and/or initialize the work area
    600
                                rtnam_init ();
                     0691
0692
0693
0694
0695
   601
602
603
                                   Get pointers that we need. Have to wait until work area allocated by init call
                                rtnam = .exch$a_gbl [excg$a_rtnam_work];
rtnam [rtnam$v_delete_command] = frue;
    604
                                                                                                            ! Pointer to work area
   605
    606
                                   Do the rest from the common routine
    608
                                RETURN rtnam_common ();
   610
                                END:
```

EX

ı	
П	EW
ı	
ш	MO
ш	AA

EXCHSRINAM V04-000	RT-11 name manipulation rou exch\$rtnam_delete	tines	D 9 16-Sep-1984 (14-Sep-1984)	01:21:5 12:29:0	5 VAX-11 Bliss-32 V4.0-742 8 CEXCHNG.SRCJEXCRINAM.B32;1	Page (7)
; Routine Size:	20 A0 FAA4 CF	04	00002 CAL 00007 MON 0000E MON 00012 BIS 00016 CAL 0001B RE1	VL E VL 2 SB2 #	XCH\$RTNAM DELETE, Save nothing O, RTNAM INIT XCH\$A_GBE, RO 4(RO), RTNAM 2, 32(RTNAM) O, RTNAM_COMMON	0648 0690 0694 0695 0699 0700

```
EX
```

```
EXCHSRTNAM
                     RT-11 name manipulation routines
                                                                                      16-Sep-1984 01:21:55
14-Sep-1984 12:29:08
                                                                                                                       VAX-11 Bliss-32 V4.0-742
LEXCHNG.SRCJEXCRTNAM.B32:1
V04-000
                     rtnam_delete_action (res_len, res_buf)
                                GLOBAL ROUTINE rtnam_delete_action (res_len, res_buf) = %SBTTL 'rtnam_delete_action (res_len, res_buf)'
                                1++
                     0704
0705
0706
0707
                                   FUNCTIONAL DESCRIPTION:
                                           Secondary action routine for the DELETE verb for RT11 only
                                   INPUTS:
   621
623
623
625
626
627
628
633
633
633
633
637
                                           res_len - length of result name
                                           res_buf - address of result name
                                   IMPLICIT INPUTS:
                                           Command parameters and qualifiers as returned from CLIS routines. Global environment ref'd by exchS
                                   OUTPUTS:
                                           none
                                   IMPLICIT OUTPUTS:
                                           none
                                   ROUTINE VALUE:
                                           Success or worst error encountered.
                                   SIDE EFFECTS:
                                           Files may be deleted.
                                $dbgtrc_prefix ('rtnam_delete_action> ');
                                LOCAL
                                     status
                                     rtnam = exch$a gbl [excg$a rtnam_work] : $ref_bblock,
filb = rtnam [rtnam$a inp_filb] : $ref_bblock,
volb = filb [filb$a assoc_volb] : $ref_bblock,
ctx = filb [filb$a context] : $ref_bblock,
ent = ctx [rt11ctx$a_ent_address] : $ref_bblock
                                                                                                                      ! Pointer to work area
                                $block_check (2, .filb, filb, 554);
$block_check (2, .volb, volb, 555);
$block_check (2, .ctx, rt11ctx, 556);
    660
                     0751
0752
0753
                                                                                                                       ! Make sure that it is what we think it is
                                ! Verify that it is ok to delete the existing file
   666
                                if .ctx [rt11ctx$v_typ_protected] ! Can't delete protected files
    667
   668
                                     $exch_signal_return (exch$_notdeleted, 2, .res_len, .res_buf, exch$_rtprotect)
```

			EXTRN	EXCHS_DELETED	
50 00000000G	57 000000006 56 000000006 EF	00FC 00000 00 9E 00002 EF 9E 00009 18 C1 00010 60 D0 00018	ENTRY MOVAB MOVAB ADDL3	RTNAM DELETE ACTION, Save R2,R3,R4,R5,R6,R LIB\$SIGNAL, R7 EXCH\$UTIL BLOCK_CHECK, R6 #24, EXCH\$A_GBL, R0 (R0), R4 #28, 36(R4), R5	7 : 0701
55 50 24	Å4	1C C1 0001B	MOVL ADDL 3 ADDL 3	#28, 36(R4), R5 #32, 36(R4), R0	2 0173
	53 52 035B00FA 51 022A 50 24	20 C1 00020 60 D0 00025 8F D0 00028 8F 3C 0002F A4 D0 00034 66 16 00038 8F D0 0003A 8F 3C 00041	MOVL MOVZWL MOVL	(R0), R3 #56295674, R2 #554, R1	0746 0749
	52 041B00F3 51 022B 50	65 DO 00046	JSB MOVL MOVZWL MOVL	36(R4), R0 EXCHSUTIL_BLOCK_CHECK #68878579, R2 #555, R1 (R5), R0	0750
	52 008200F4 51 022C	66 16 00049 8F 00 00048 8F 3C 00052 53 00 00057	JSB MOVL MOVZWL MOVL	#8519924, R2 #856, R1 R3, R0	0751
	39	66 16 0005A A3 95 0005C	JSB TSTB BGEQ	EXCHSUTIL_BLOCK_CHECK 57(R3)	0755
	52 00000000G 00000000G	1C 18 0005F 8F D0 00061 8F DD 00068	MOVL PUSHL	WEXCHS NOTDELETED, TEMP WEXCHS RTPROTECT	0757

EX VQ

EXCHSRTNAM VO4-000	RT-11 name manipulation rtnam_delete_action (r	n routines es_len, res_bu	f)	16-Sep-1984 01:21 14-Sep-1984 12:29	:55 VAX-11 Bliss-32 V4.0-742 :08 [EXCHNG.SRCJEXCRINAM.B32;1	Page 2
		7E 04 AC 02 52 67 05 52		7D 0006E MOVQ DD 00072 PUSHL DD 00074 PUSHL FB 00076 CALLS DO 00079 MOVL 04 0007C RET	RES_LEN, -(SP) #2 TEMP #5, LIB\$SIGNAL TEMP, RO	
	01 39 00000000G	50 7E A0 A3 76	A3 D 02 9 03 D A3 D	DO 0007D 15: MOVL 90 00081 MOVB 90 00085 MOVB DD 00089 PUSHL	126(R3), R0 #2, 1(R0) #2, 57(R3) 118(R3) (R5)	0766 0777 0777
		EF OF 1C 7E 04	02 F A4 E AC 7 02 D 8F D	FB 0008E CALLS E9 00095 BLBC 7D 00099 MOVQ DD 0009D PUSHL	W2, EXCHSRT11_DIRSEG_PUT 28(R4), 28 RES_LEN. = (SP)	0776 0778
		000000006 67 50	04 F 01 D	DD 0009F FB 000A5 DO 000A8 2\$: MOVL 04 000AB RET	#EXCH\$ DELETED #4, LIB\$SIGNAL #1, RO	078 078

```
H 9
16-Sep-1984 01:21:55
14-Sep-1984 12:29:08
EXCHSRTNAM
VO4-000
                                                                                                       VAX-11 BLiss-32 V4.0-742
CEXCHNG.SRCJEXCRINAM.B32:1
                  RT-11 name manipulation routines
                   rtnam_init
                            GLOBAL ROUTINE rtnam_init : NOVALUE = %SBTTL 'rtnam_init'
   BEGIN
                              FUNCTIONAL DESCRIPTION:
                                     Common init routine for the rtnam verbs
                              INPUTS:
                                     none
                              IMPLICIT INPUTS:
                  0797
0798
0799
0800
0801
0802
0803
0804
0805
0806
0808
0808
0811
0811
0816
0816
0817
0818
0819
                                     Command parameters and qualifiers as returned from CLIS routines. Global environment ref'd by exchS
                              OUTPUTS:
                                     none
                              IMPLICIT OUTPUTS:
                                     none
                              ROUTINE VALUE:
                                     none
                              SIDE EFFECTS:
                                     Files may be created.
                            $dbgtrc_prefix ('rtnam_init> ');
                            LOCAL
                                status
                                rtnam = exch$a_gbl [excg$a_rtnam_work] : $ref_bblock
                                                                                                       ! Pointer to work area
                              The COPY /BOOT command does not support /LOG or /SYSTEM. Set up a handler to do a RETURN when we would
                              normally get the MSGS_SYNTAX error.
                            ENABLE
                                exch$cmd_unwind_cli_syntax;
                            ! If our pointer is null, we need to allocate and initialize the work area
                            IF .rtnam EQL 0
                            THEN
                                BEGIN
                                  Get the right sized chunk of memory
```

EX

```
16-Sep-1984 01:21:55
14-Sep-1984 12:29:08
EXCHSRINAM
                       RT-11 name manipulation routines
                                                                                                                                  VAX-11 Bliss-32 V4.0-742
LEXCHNG.SRCJEXCRTNAM.B32:1
V24-000
                        rtnam_init
                                         rtnam = exchSutil_vm_allocate (exchblkSs_rtnam);
    755
754
755
757
758
769
764
768
768
768
777
777
776
777
                       ! Set the ident fields
                                         $block_init (.rtnam, rtnam);
                                          ! Set the dynamic strings
                                         $dyn_str_desc_init (rtnam [rtnam$q_input_filename]);
$dyn_str_desc_init (rtnam [rtnam$q_output_filename]);
$dyn_str_desc_init (rtnam [rtnam$q_input_sticky_name]);
                                          END
                                   ELSE
                                         BEGIN
                                          ! Free the dynamic strings and the Chicago 7
                                         str$free1_dx (rtnam [rtnam$q_input_filename]);
str$free1_dx (rtnam [rtnam$q_output_filename]);
str$free1_dx (rtnam [rtnam$q_input_sticky_name]);
                                         END:
                                      Get some confidence that our work area is valid
                       0866
    778
779
781
781
782
783
784
785
786
787
791
792
793
794
795
                       0867
0868
                                   $block_check (2, .rtnam, rtnam, 541);
                       0869
                                      Set the last part of the block to nulls
                       0870
                       0871
                                   CH$fILL (0, rtnam$k_end_zero - rtnam$k_start_zero, .rtnam + rtnam$k_start_zero);
                       0872
0873
                                      Get the global boolean qualifiers common to all (COPY /BOOT, DELETE, RENAME) commands
                       0874
0875
                                   rtnam [rtnam$v_q_log]
                                                                                  = cli%present (%ASCID 'LOG');
                                                                                                                                                                                  ! global
                       0876
0877
0878
                                      Get global booleans common to Delete and Rename only, COPY /BOOT will unwind, so nothing that COPY/BOOT ne can be past this point
                       0879
                       0880
                                                                                  = cli$present (%ASCID 'SYSTEM');
= cli$present (%ASCID 'CONFIRM');
                                                                                                                                                                                    global
                                   rtnam [rtnam$v_q_system]
!\ rtnam [rtnam$v_q_confirm]
                        0881
                                   RETURN:
                                   END:
                                                                                                              .PSECT EXCHSRTNAM_PLIT,NOWRT,2
                                                                                        00024 P.AAH:
00028 P.AAG:
0002C
00030 P.AAJ:
00038 P.AAI:
                                                                                                              .ASCII
                                                                                                              .LONG
                                                                                                              .ADDRESS P.AAH
                                                                                                                         \$Y$TEM\<0><0>
17694726
                                                    4D
                                                          45
                                                                54
                                                                                                              .ASCII
```

. LONG

.ADDRESS P.AAJ

.EXTRN STRSFREE1_DX, CLISPRESENT

EX

EXCHSRTNAM V04-000	RT-11 name m	manipulation	routines	16-Sep-1984 01: 14-Sep-1984 12:	21:55 VAX-11 Bliss-32 V4.0-742 29:08 [EXCHNG.SRC]EXCRTNAM.B32;1	Page 26
				.PSEC	T EXCHSRTNAM_CODE, NOWRT, 2	
			58 00000000 57 00000000	01FC 00000 .ENTR 00 9E 00002 MOVAE 00 9E 00009 MOVAE 18 C1 00010 ADDL3 CF DE 00018 MOVAL 62 D5 0001D TSTL 44 12 0001F BNEQ 70 D0 00021 PUSHL 01 FB 00023 CALLS 50 D0 0002A MOVL 34 B0 0002D MOVL 06 8E 00031 MNEGE 62 D0 00035 MOVL 65 D0 00042 MOVL 65 D0 00042 MOVL 51 D0 00049 MOVL 51 D0 00051 MOVL 51 D0 00054 MOVL 51 D0 00056 MOVL	RTNAM INIT, Save R2,R3,R4,R5,R6,R7,R8 CLISPRESENT, R8 STRSFREE1 DX, R7 #24, EXCHSA_GBL, R2 38, (FP) (R2)	: 0784
	52	000000006	EF	18 C1 00010 ADDL3	#24, EXCHSA GBL, R2	0824
			6D 0096	00 9E 00002 MOVAE 00 9E 00009 MOVAE 18 C1 00010 ADDL3 CF DE 00018 MOVAL 62 D5 0001D TSTL 44 12 0001F BNEG	38 (FP) (R2)	0835
				44 12 0001F BNEQ 34 DD 00021 PUSHL	1 \$ #52	0841
		000000006	62	34 DD 00021 PUSHL 01 FB 00023 CALLS 50 DO 0002A MOVL	#1, EXCH\$UTIL_VM_ALLOCATE R0, (R2)	
		08 0A	AO	\$0 DO 0002A MOVL 34 BO 0002D MOVW 0E 8E 00031 MNEGE	#52, 8(RO) #14, 10(RO)	0845
			A0 50 53 00000000	62 DO 00035 MOVL	#1. EXCH\$UTIL_VM_ALLOCATE R0. (R2) #52. 8(R0) #14. 10(R0) (R2), R0 TMPL. R3	0849
			60 51 00000000	\$0 D0 0002A	R3, (R0) TMPL+4, R1	
	50	04	A0 62	51 DO 00049 MOVL	TMPL, R3 R3, (R0) TMPL+4, R1 R1, 4(R0) #12, (R2), R0 R3, (R0) R1, 4(R0) #20, (R2), R0 R3, (R0) R1, 4(R0) 25 (R2)	0850
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	04	60	0C C1 0004D ADDL3 53 D0 00051 MOVL 51 D0 00054 MOVL	R3. (R0) R1. 4(R0)	. 0050
	50	04	A0 62 60 A0	53 DO 00051 MOVL 51 DO 00054 MOVL 14 C1 00058 ADDL3 53 DO 0005C MOVL 51 DO 0005F MOVL 13 11 00063 BRB	#20, (R2), R0	0851
		04	AO	53 DO 0005C MOVL 51 DO 0005F MOVL	R3. (R0) R1. 4(R0)	0976
			47	62 DD 00065 18: PUSHL 01 FB 00067 CALLS	(R2)	0835 0859
	7E		67 62 67	13 11 00063 62 DD 00065 1\$: PUSHL 01 FB 00067 CALLS 01 FB 0006E CALLS 14 C1 00071 ADDL3 01 FB 00075 CALLS	#12, (R2), -(SP)	0860
	7E		62	14 C1 00071 ADDL3	#20, (R2), -(SP)	0861
			62 67 56 52 003400F2	62 DO 00078 28: MOVL	(R2) 4 R0	0867
			52 003400F2 51 021D 50	8F DO 0007B MOVL 8F 3C 00082 MOVZW	L #541, R1	
10	00		00000000	62 D0 00078 2\$: MOVL 8F D0 0007B MOVL 8F 3C 00082 MOVZW 56 D0 00087 MOVL EF 16 0008A JSB 00 2C 00090 MOVC5	EXCHSUTIL_BLOCK_CHECK	0074
18	00		6E 1C 0000	A6 00095		0871
			68 00	CF 9F 00097 PUSHA 01 FB 0009B CALLS	B P.AAG #1. CLISPRESENT R0, #0, #1, 28(R6)	0875
1C A6	01		0000	50 FO 0009E INSV CF 9F 000A4 PUSHA	B P.AAI	0880
1C A6	01		68	01 FB 0009B CALLS 50 F0 0009E INSV CF 9F 000A4 PUSHA 01 FB 000AB CALLS 50 F0 000AB INSV 04 000B1 RET 0000 000B2 38: WORD	RO, WO, W1, 28(R6) B P.AAI W1, CLISPRESENT RO, W3, W1, 28(R6)	2001
				0000 000B2 3\$: NORD	Save nothing	0884 0824
				7E D4 000B4 CLRL 5E DD 000B6 PUSHL AC 7D 000B8 MOVQ 03 FB 000BC CALLS 04 000C3 RET	-(SP)	
		000000006	7E 04	AC 7D 000B8 MOVQ 03 FB 000BC CALLS 04 000C3 RET	SP 4(AP), -(SP) #3, EXCH\$CMD_UNWIND_CLI_SYNTAX	

E)

; Routine Size: 196 bytes, Routine Base: EXCH\$RTNAM_CODE + 0609

```
EX
```

```
EXCHERTNAM
                                                                                                         16-Sep-1984 01:21:55
14-Sep-1984 12:29:08
                          RT-11 name manipulation routines
                                                                                                                                                VAX-11 Bliss-32 V4.0-742
LEXCHNG.SRCJEXCRTNAM.B32;1
                                                                                                                                                                                                           Page 27 (10)
V04-000
                          rtnam_parse_cleanup
                                       GLOBAL ROUTINE rtnam_parse_cleanup : NOVALUE = %SBTTL 'rtnam_parse_cleanup' BEGIN !++
    088878901234567890009090911234567890093312
                                          FUNCTIONAL DESCRIPTION:
                                                    Clean up after a successful parse. Release the namb and other structures.
                                          INPUTS:
                                                    none
                                          IMPLICIT INPUTS:
                                                    rtnam$a_inp_namb field in rtnam work area
                                          OUTPUTS:
                                                    none
                                          IMPLICIT OUTPUTS:
                                                    none
                                          ROUTINE VALUE:
                                                    none
                                          SIDE EFFECTS:
                                                    none
                                       $dbgtrc_prefix ('rtnam_parse_cleanup> ');
                                      BIND
                                             rtnam = exch$a gbl [excg$a rtnam work] : $ref bblock,
filb = rtnam [rtnam$a inp filb] : $ref bblock,
namb = filb [filb$a assoc namb] : $ref bblock,
volb = filb [filb$a assoc volb] : $ref bblock,
ctx = filb [filb$a context] : $ref bblock
                                                                                                                                      ! Pointer to work area Filb for the input
                                                                                                                                      Namb for the input
                                                                                                                                      Volb for the input
                                                                                                                                      Volume specific context
                                      $debug_print_lit ('entry');
$block_check (2, .filb, filb, 543);
$block_check (2, .namb, namb, 544);
$block_check (2, .volb, volb, 545);
$block_check (2, .ctx, rt11ctx, 546);
```

```
EX
```

```
EXCHSRTNAM
V04-000
                                                                                              VAX-11 Bliss-32 V4.0-742
LEXCHNG.SRCJEXCRINAM.B32;1
                 RT-11 name manipulation routines
                 rtnam_parse_cleanup
                         ! If we have been able to write, then clean things up
  if .volb [volb$v_write]
THEN
                             BEGIN
                               Compress unnecessary entries from the directory. O means not to restructure the directory.
                              exch$rtacp_consolidate (.volb, 0);
                              ! Turn caching off and flush any modified directory segments
                              exch$rt11_dircache_stop (.volb);
                             END:
                           Release the context block
                         exch$util_rt11ctx_release (.ctx);
                           Release the input namb
                         exch$util_namb_release (.namb);
                           Release the input filb
                         exch$util_filb_release (.filb);
                0960
0961
0962
                         RETURN:
                         END:
```

		57	000000006	EF 0	OF C	00000 00002	.ENTRY	RTNAM PARSE CLEANUP, Save R2,R3,R4,R5,R6,R7 EXCHSUTIL BLOCK_CHECK, R7 #24, EXCHSA_GBL, R0	: 0885
50	0000000G	EF 60		18	<u>C1</u>	00009	ADDL3	#24, EXCH\$A GBL, RO #36, (RO), R4	0921
54 56 53 55		64		18	ČÌ	00015	ADDL3	#24, (R4), R6	: 0923
55		64		20	C1	00019	ADDL3	#28, (R4), R3 #32, (R4), R5	0924
		52	035B00FA	20 8F	00	00021	MOVL	#56295674, R2	0925
		50	021F	8F 64	DQ	00028	MOVZWL	#543, R1 (R4), R0	
		60	0101007	67 8F 8F	16	00030	JSB	EXCHSUTIL_BLOCK_CHECK #17432823, R2	0070
		51	010A00F7 0220	8F	30	00032	MOVZWL	#17432823, R2 #544, R1	0930
		50	0000	66	DŎ	0003E	MOVL	(R6), R0	
		53		67	16	00041	JSB	EXCHSUTIL_ELOCK_CHECK	0931
		52	041B00F3	63 8F	00	00046	MOVL	(R3), R3 #68878579, R2	;
		51	0221	8F	20	0004D	MOVZWL	#545, R1 R3, R0	
				67	16	00055	JSB	EXCHSUTIL_BLOCK_CHECK	
		52 51	008200F4 0222	8F	PO.	00057	MOVZWL	#8519924, R2 #546, R1	0932
			VELL	U	36	00075	HOAFAE	#340, K1	•

1:55	VAX-11 Bliss-32 V4.0-742 LEXCHNG.SRCJEXCRINAM.B32;1	Page 29 (11)
-(5)), RO H\$UTIL_BLOCK_CHECK 72(R3), 1\$ P)	0935 0941
(R5)		0945 0951
(R6) #1 (R4)	EXCHSUTIL_NAMB_RELEASE	0955 0959
<i>#</i> 1,	EXCH\$UTIL_FILB_RELEASE	;

EX

0962

M 9 16-Sep-1984 01:21:55 14-Sep-1984 12:29:08

MOVE JSB BBC CLRL

00063 00066 00068 00066 00066 00071 00078 0007A 00081 00083 00084 0008C 00093 00095 ; Routine Size: 157 bytes, Routine Base: EXCH\$RTNAM_CODE + 06CD

RT-11 name manipulation routines rtnam_parse_cleanup

48

00000000G EF

00000000 EF

00000000G EF

00000000G EF

00000000G EF

14

50

A3

6675E3231516061601

EXCHSRTNAM V04-000

```
EXCHSRTNAM
VO4-000
                                                                          16-Sep-1984 01:21:55
14-Sep-1984 12:29:08
                                                                                                     VAX-11 Bliss-32 V4.0-742
LEXCHNG.SRCJEXCRTNAM.B32:1
                  RT-11 name manipulation routines
                  rtnam_parse_next_input
                           GLOBAL ROUTINE rtnam_parse_next_input = %SBTTL 'rtnam_parse_next_input'
                  0963
0964
0965
0966
0967
0968
0970
0971
0973
0974
0975
0977
0978
0981
0982
0983
   BEGIN
                           1++
                             FUNCTIONAL DESCRIPTION:
                                     fetch the next input parameter. Parse the filename and initialize the input file work region.
                              INPUTS:
                                     none
                              IMPLICIT INPUTS:
                                     Command qualifier value as returned from CLISxxx routines. rtnam command work area.
                              OUTPUTS:
                                     none
                              IMPLICIT OUTPUTS:
                  0984
0985
0986
0987
0988
0989
0990
0991
0992
0993
0994
0995
0996
0997
                                    Command work area receives parse info
                              ROUTINE VALUE:
                                    Success or worst error encountered.
                             SIDE EFFECTS:
   908
                                     none
   909
   910
   911
                           $dbgtrc_prefix ('rtnam_parse_next_input> ');
   912
                           LOCAL
   914
                                ctx: $ref_bblock,
                  1000
1001
1002
1003
1004
1005
1006
1007
1008
1009
1010
1011
1013
1016
1017
                                volb : Sref_bblock.
   916
                                format.
                                status
                           BIND
   920
921
923
923
924
925
926
927
928
931
933
933
                                ! Pointer to work area
                           $block_check (2, .rtnam, rtnam, 542);
                            ! Fetch the filename and a pointer to a namb
                           1018
                           THEN
                                BEGIN
```

EX

........

ELSE

1076

**

Page 31 (12)

```
C 10
16-Sep-1984 01:21:55
14-Sep-1984 12:29:08
EXCHSRTNAM
                      RT-11 name manipulation routines
                                                                                                                             VAX-11 Bliss-32 V4.0-742
CEXCHNG.SRCJEXCRTNAM.B32:1
                                                                                                                                                                                Page 32 (12)
V04-000
                      rtnam_parse_next_input
   992
993
994
995
996
997
998
999
                                                                          BEGIN
                      1078
                                                                          errstat = exch$_opnotperf11;
$exch_signal (.errstat, 1, inp_namb [namb$q_device]);
                       1080
                                                                    exchSutil_namb_release (.inp_namb);
                       1081
                                                                                                                                                    ! Release the bad namb
                       1082
1083
                                                                    RETURN .errstat;
                                                                    END:
                       1084
1085
  1000
                                       [volb$k_vfmt_dos11]
                      1086
1087
1088
1089
  1001
                                                                    BEGIN
  1002
1003
1004
1005
                                                                    LOCAL
                                                                          errstat:
                                                                    errstat = exch$_opnotperdos;
$exch_signal (.errstat, 1, inp_namb [namb$q_device]);
exch$util_namb_release (.inp_namb);
                      1090
1091
1092
1093
  1006
                                                                                                                                                    ! Release the bad namb
                                                                    RETURN .errstat:
  1008
                                                                    END:
                      1094
1095
1096
  1009
  1010
                                       Evolb$k_vfmt_rt11] :
  1011
                                                                                                                                                    ! These we can do
  1012
                       1097
                       1098
                                       [volb$k_vfmt_rtmt]
  1014
                       1099
                                                                    BEGIN
  1015
                       1100
                                                                    LOCAL
  1016
                       1101
                      1102
1103
1104
1105
  1017
                                                                    errstat = exch$_opnotperrtmt;
                                                                    $exch_signal (.errstat, 1, inp_namb [namb$q_device]);
exch$util_namb_release (.inp_namb);
  1018
  1019
                                                                                                                                                    ! Release the bad namb
  1020
1021
1022
1023
1024
1025
1026
1027
1028
1029
1030
                                                                    RETURN .errstat;
                      1106
1107
                                                                    END:
                      1108
1109
                                       [INRANGE, OUTRANGE]
                                                                    $logic_check (0, (false), 238);
                      1110
                                 TES:
                      1111
                      1112
1113
1114
1115
                                 $logic_check (3, (.volb NEQ 0), 119);
                                    Now copy the full name to the default name for proper stickiness
                      1116
  1031
                                  str$copy_dx (rtnam [rtnam$q_input_sticky_name], inp_namb [namb$q_fullname]);
 1032
                      1118
1119
                                    Allocate a file block to contain the input information
  1034
                      1120
1121
1122
1123
1124
1125
  1035
                                 inp_filb = exch$util_filb_allocate ();
exch$copy_namb_to_filb (.inp_namb, .inp_filb); ! Copy from the namb to the filb
  1036
  1038
                                   Put an RT-11 context block on the filb
  1039
  1040
                                 ctx = exch$util_rt11ctx_allocate (.volb, .inp_filb);
inp_filb [filb$a_context] = .ctx;
                      1126
1127
1128
1129
  1041
1042
1043
                                  RETURN .status;
  1044
                                 END:
```

EX

	00 00 0	0 5	01	4E 49 0E0005 000000	00040 00048 00040	P.AAL: P.AAK:	.ASCII .LONG .ADDRES	\INPUT\<0><0><0> 17694725 S P.AAL	
							.EXTRN	EXCHS_NOREMOTE, EXCHS_OPNOTPERF11 EXCHS_OPNOTPERDOS	
							.PSECT	EXCHSRTNAM_CODE, NOWRT, 2	
				016	00000		.ENTRY	RTNAM_PARSE_NEXT_INPUT, Save R2,R3,R4,R5,-	: 0963
		58 57	00000000G	EF 9	E 00002		MOVAB	R6.R7.R8 EXCHSUTIL NAMB_RELEASE, R8 LIB\$SIGNAE, R7 #24, EXCH\$A_GBL, R0	0
50	00000000G	ÉF 53		18 C	1 00010		ADDL3 MOVL	#24, EXCHSA_GBL, RO	1006
		52 51	003400F2 021E	60 DI 8F DI 8F 3	0 0001B C 00022		MOVE	(RO), R3 #3408114, R2 #542, R1	1012
		51 50	000000006	EF 10	0 00027 6 0002A		MOVL JSB	R3. RO EXCHSUTIL_BLOCK_CHECK	
			28	A3 9	00033		PUSHAB PUSHL	40(R3) R3	1017
			14	7E D	F 00037		CLRL PUSHAB	-(SP) 20(R3) P.AAK	: 1016
	0000000G	EF	0000°	O5 FI	B 0003E		PUSHAB	#5. EXCHSCMD PARSE FILESPEC	1017
		56 13		50 D	0 00045 8 00048 3 0004B		MOVL BLBS BEQL	RO, STATUS STATUS, 1\$ 6\$	1020
			0048	8F BI	B 0004D		PUSHR	#^M <r3,r6></r3,r6>	1020
		67	0000000G	8F DI 04 FI	00053		PUSHL	#EXCHS PARSEERR #4, LIBSSIGNAL	•
		52	28	3F 1	1 0005C	15:	BRB	6\$	1023
			6D	A2 9	9 00065		TSTB BLSS	40(R3), R2 109(R2) 2\$	
	20	04 A3	60	A2 E1	9 00067	28:	BLBC BISB2	108(R2), 3\$ #1, 32(R3) 116(R2)	1031
			74	01 8 A2 D 2C 11 A2 E1 03 E1 A2 9 06 11 A2 9	8 0006B 5 0006F 2 00072 8 00074 0 00078	38:	TCTI	116(R2) 7\$:
23	6A	05 A2 01	6B	A2 E1 03 E1 06 1	0 00074		BBS	7\$ 107(R2), 4\$ #3, 106(R2), 7\$ 120(R2), #1	1040
			78	06 1	3 00081	45:	BEQL		1043
		02	78		2 00087	ce.	BNEQ	120(R2), #2 7\$ R2	1045
	0000000G	56 08		52 DI 01 FI 50 DI	3 00081 1 00083 2 00087 0 00089 B 0008B 0 00092	38:	BNEQ BLBS BBS CMPB BEQL CMPB BNEQ PUSHL CALLS	#1, EXCHSMOUN_IMPLIED_MOUNT RO, STATUS STATUS, 71	1047
		08		56 E	8 00095		MOVL BLBS PUSHL	STATUS, 71	1052
		68	(56 E6 52 DI 01 F1 1098 3	8 00095 0 00098 8 0009A 1 0009D 0 000A0	68:	CALLS	R2 #1 EXCHSUTIL_NAMB_RELEASE 18\$	
		55	74	A2 D	0 000A0	78:	MOVL	116(R2), VOLB	1053 1057 1058 1060
		50	58	06 11 A5 9	3 000A4 A 000A6		MOVZBL	8\$ 88(VOLB), FORMAT	: 1060

EXCHSRTNAM VO4-000	RT-11 name mani rtnam_parse_nex	ipulation re	outines			10	E 10 6-Sep-1 4-Sep-1	984 01:21 984 12:29	:55 VAX-11 Bliss-32 V4.0-742 :08 [EXCHNG.SRC]EXCRTNAM.B32;1	Page 34
0050	03 001D	50 00 0036	7A	04 A2 50 0008	11 9A CF	000AA 000AC 000B0 000B4	8\$: 9\$: 10\$:	BRB MOVZBL CASEL . WORD	9\$ 122(R2), FORMAT FORMAT, #0, #3 11\$-10\$,- 14\$-10\$,- 12\$-10\$,-	1062 1064
	000	7E	EE 000000000	8F 01 8F 03	9A DD DD	000BC 000C0 000C2 000C8	11\$:	MOVZBL PUSHL PUSHL CALLS	#1 #EXCHS_BADLOGIC	1109
	08	6C A2	000000000	33 06 8f 53	11 E1 D0 DD	000CF 000D1 000D6 000DD	12\$:	BRB BBC MOVL PUSHL	#6, 108(R2), 138 #EXCHS_NOREMOTE, ERRSTAT R3	1070 1073 1074
			000000000	07 8F A2	DO 11 DO 9F	000DF 000E1 000E8 000EA 000F1	13\$: 14\$: 15\$:	BRB MOVL BRB MOVL PUSHAB	16\$ #EXCH\$_OPNOTPERF11, ERRSTAT 15\$ #EXCH\$_OPNOTPERDOS, ERRSTAT 64(R2) #1	1078 1079 1089 1090
		67 68 50		01 54 03 52 01 54	DD DB DB DD FB DD	000F4 000F6 000FB 000FD 00100 00103	16\$:	PUSHL PUSHL CALLS PUSHL CALLS MOVL	ERRSTAT #3, LIB\$SIGNAL R2 #1, EXCH\$UTIL_NAMB_RELEASE ERRSTAT, R0	1091
	000	000000G 00	18 14	A2 A3 02 00	04 9F 9F FB	00104 00107 0010A 00111	17\$:	MOVL RET PUSHAB PUSHAB CALLS CALLS MOVL MOVL	24(R2) 20(R3) #2, STR\$COPY_DX #0, EXCH\$UTIC_FILB_ALLOCATE	1116
	000	24 A3 53 0000000 EF	24	50 A3 00 02 55 55	DO DO BB FB DD	00118 0011C 00120 00122 00129		CALLS PUSHL	#^M <r2,r3> #2, EXCH\$COPY_NAMB_TO_FILB R3</r2,r3>	1121
	000	20 A3 50		50 50 56	DD FB DO 04	0011C 00120 00122 00129 0012B 0012D 00134 0013B	18\$:	PUSHL CALLS MOVL MOVL RET	VOLB #2. EXCHSUTIL_RT11CTX_ALLOCATE CTX, 32(R3) STATUS, R0	1126 1128 1129

Routine Base: EXCH\$RTNAM_CODE + 076A

; Routine Size: 316 bytes,

```
16-Sep-1984 01:21:55
14-Sep-1984 12:29:08
EXCHSRINAM
                                                                                                                     VAX-11 Bliss-32 V4.0-742
CEXCHNG.SRCJEXCRTNAM.B32:1
                     RT-11 name manipulation routines
                                                                                                                                                                     Page 35
V04-000
                     exchSrtnam_rename
                                GLOBAL ROUTINE exch$rtnam_rename =
  1046
1047
1048
1049
1050
1051
1053
1055
1056
1057
1060
1061
                                                                                     %SBTTL 'exch$rtnam_rename'
                               BEGIN
                                  FUNCTIONAL DESCRIPTION:
                                          Entry routine for the RENAME verb for RT11 only
                                  INPUTS:
                                          none
                                  IMPLICIT INPUTS:
                                          Command parameters and qualifiers as returned from CLI$ routines. Global environment ref'd by exch$
                     1145
1146
1147
1148
1149
  1062
1063
1064
1065
                                  OUTPUTS:
                                          none
  1066
1067
1068
                     1150
                                  IMPLICIT OUTPUTS:
                     1151
1152
1153
1154
1155
1156
1157
1158
1161
1163
1164
1166
1167
1168
1169
                                          none
  1069
  1070
                                  ROUTINE VALUE:
  1071
  1072
                                          Success or worst error encountered.
  1073
  1074
                                  SIDE EFFECTS:
  1075
  1076
                                          Files may be renamed.
  1077
  1078
  1079
                               $dbgtrc_prefix ('rtnam_rename> ');
  1080
  1081
                               LOCAL
  1082
1083
1084
                                     protect,
                                     rtnam : $ref_bblock.
                                                                                              ! pointer to work area
                                     status
  1085
  1086
                     1171
1172
1173
1174
1175
1176
1177
  1087
1088
                                  Allocate and/or initialize the work area
  1089
1090
1091
1092
1093
1094
1095
1096
1097
1098
                               rtnam_init ();
                                  Get pointers that we need. Have to wait until work area allocated by init call
                                rtnam = .exch$a_gbl [excg$a_rtnam_work];
                                                                                                          ! Pointer to work area
                     1178
1179
                               rtnam [rtnam$v_rename_command] = frue;
                     1180
                                ! For /PROTECT, we need to know whether it was specified or defaulted
                     1181
1182
1183
                               protect = clispresent (%ASCID 'PROTECT');
                               rtnam [rtnam$v_q_protect] = .protect;
rtnam [rtnam$v_q_protect_explicit] = ((.protect_EQL_clis_present)
                                                                                                                                             Simply value of low bi?
Either /PROTECT or /NOPROT
                     1184
1185
  1100
  1101
                                                                                     OR (.protect EQL clis negated));
                                                                                                                                              must be there
  1102
                     1186
```

E)

EXCHSRTNAM V04-000		name manipulatio	n routines		G 10 16-Sep-19 14-Sep-19	84 01:21 84 12:29	:55 VAX-11 Bliss-32 V4.0-742 :08 [EXCHNG.SRCJEXCRINAM.B32;1	Page 36
1103 1187 2 ! Do the rest from the common routine 1188 2 ! 1105 1189 2 status = rtnam_common (); 1106 1190 1191 2 If .rtnam [rtnam\$a_out_namb] NEQ 0 1108 1109 1192 1110 1193 2 exch\$util_namb_release (.rtnam [rtnam\$a_information in items							! Return the namb to th	e available p
						.PSECT	EXCHSRTNAM_PLIT, NOWRT, 2	
		00 54 43	01	0E0007 000	050 P.AAN: 058 P.AAM: 05C	.ASCII .LONG .ADDRESS	\PROTECT\<0> 17694727 S P.AAN	
						.EXTRN	CLIS_PRESENT, CLIS_NEGATED	
						.PSECT	EXCHSRTNAM_CODE, NOWRT, 2	
		FD5C	CF 50 000000006 52 18	001C 000 00 FB 000 EF D0 000 AO D0 000	002 007 00E	ENTRY CALLS MOVL MOVL BISB2	EXCHSRINAM RENAME, Save R2,R3,R4 #0, RINAM INIT EXCHSA_GBE, R0 24(R0), RINAM #4, 32(RINAM)	1130 1173 1177
		20 00000000G	0000	EF DO 000 AO DO 000 04 88 000 CF 9F 000 01 FB 000 50 FO 000	016	PUSHAB	P. AAM	1178
1C AZ		01 0000000G	00 01 8f	53 D4 000 50 D1 000	021 027 039	CALLS INSV CLRL CMPL BNEQ	#1, CLISPRESENT PROTECT, #1, #1, 28(RTNAM) R3 PROTECT, #CLIS_PRESENT 18	1183 1184
		000000006	8F	53 D6 000 51 D4 000 50 D1 000 02 12 000	030 032 034 18: 036	BNEQ INCL CLRL CMPL BNEQ	1\$ R3 R1 PROTECT, #CLI\$_NEGATED 2\$	1189
1C A2		54 01 F70A	51 02 CF 53	02 12 000 53 D6 000 51 D6 000 51 D6 000 51 D6 000 53 B9 000 54 F0 000 65 D0 000 A2 D5 000	041 28: 045 048 050	CLRL CMPL BNEQ INCL BISB3 INSV CALLS MOVL TSTL BEQL PUSHL CALLS	R1 R3, R1, R4 R4, #2, #1, 28(RTNAM) #0, RTNAM COMMON R0, STATUS 48(RTNAM)	1189
		000000006	30 Ef 50	0A 13 000 A2 DD 000 01 FB 000 53 D0 000 04 000	058 062 38:	BEQL PUSHL CALLS MOVL RET	3\$ 48(RTNAM) #1. EXCHSUTIL_NAMB_RELEASE STATUS, RO	1193 1195 1196

E) V(

; Routine Size: 102 bytes, Routine Base: EXCH\$RTNAM_CODE + 08A6

```
EXCHERTNAM
                                                                                                     16-Sep-1984 01:21:55
14-Sep-1984 12:29:08
                         RT-11 name manipulation routines
                                                                                                                                           VAX-11 Bliss-32 V4.0-742
CEXCHNG.SRCJEXCRTNAM.B32;1
V04-000
                         rtnam_rename_action (res_len, res_buf)
                                      GLOBAL ROUTINE rtnam_rename_action (res_len, res_buf) = %SBTTL 'rtnam_rename_action (res_len, res_buf)'
                         1198
1199
1200
1201
1202
1203
1204
                                      BEGIN
  FUNCTIONAL DESCRIPTION:
                                                   Secondary action routine for the RENAME verb for RT11 only
                        INPUTS:
                                                   res_len - length of result name
                                                   res_buf - address of result name
                                         IMPLICIT INPUTS:
                                                   Command parameters and qualifiers as returned from CLIS routines. Global environment ref'd by exchS
                                         OUTPUTS:
                                                   none
                                         IMPLICIT OUTPUTS:
                                                  none
                                         ROUTINE VALUE:
                                                   Success or worst error encountered.
                                         SIDE EFFECTS:
                                                  files may be renamed.
  1147
1148
1149
1150
1151
1152
1153
1155
1156
1157
1168
1163
1164
1167
1168
1169
1170
                                     $dbgtrc_prefix ('rtnam_rename_action> ');
                                     LOCAL
                                            ctx2 : $ref_bblock,
rfp : $bblock [nam$c_bln+nam$c_maxrss],
fin_buf : $bvector [filb$s_result_name],
                                                                                                                   ! context block to look for duplicates
                                                                                                                  ! related file parse - an RMS him block plus expanded string ! a buffer in which to build the actual final name
                                            fin_len,
                                            nam_len,
                                            status
                                     BIND
                                           rtnam = exch$a_gbl [excg$a_rtnam_work] : $ref_bblock,
out_name = rtnam [rtnam$q_output_filename] : $desc_block,
namb = rtnam [rtnam$a_out_namb] : $ref_bblock,
filb = rtnam [rtnam$a_inp_filb] : $ref_bblock,
volb = filb [filb$a_assoc_volb] : $ref_bblock,
ctx = filb [filb$a_context] : $ref_bblock,
ent = ctx [rt11ctx$a_ent_address] : $ref_bblock
                                                                                                                                           ! Pointer to work area
                                     $block_check (2, .filb, filb, 450);
$block_check (2, .volb, volb, 460);
```

E) V(

20

61

```
EX
```

```
10
EXCHSRINAM
                                                                      16-Sep-1984 01:21:55
14-Sep-1984 12:29:08
                                                                                                VAX-11 Bliss-32 V4.0-742
LEXCHNG.SRCJEXCRTNAM.B32;1
                 RT-11 name manipulation routines
                 rtnam_rename_action (res_len, res_buf)
V04-000
                          $block_check (2, .ctx, rt11ctx, 444);
 1171
1172
1173
1174
1175
1176
1177
1178
                                                                                                ! Make sure that it is what we think it is
                 125567890123665678901277345678901288890129954567890128889012888901299545678900
                            If we haven't fetched the output name, do so now.
                                                                                    This gives us a chance to carry the sticky device over
                            output name
                          IF NOT .rtnam [rtnam$v_out_fetched]
                          THEN
                              BEGIN
                              LOCAL
 1180
1181
1182
1183
1184
1185
1186
1187
                                   desc : VECTOR [2, LONG]:
                              desc [0] = .res_len;
desc [1] = .res_buf;
                                fetch the desired filename and a pointer to a namb
                               IF NOT (status = exch$cmd_parse_filespec (%ASCID 'OUTPUT', desc, 0, rtnam [rtnam$q_output_filename], nam
  1188
 1189
1190
                              1191
                                                                                  ', rtnam [rtnam$q_output_filename], namb [namb$q_fullnam
 1192
                                If we have been given an invalid filename, then choke
  1194
 1195
                              If .namb [namb$v_bad_pdp_char]
 1196
1197
                                  .namb [namb$v_rt_truncate]
 1198
 1199
                                  $exch_signal_return (exch$_badfilename, 3, out_name, .volb [volb$l_vol_type_len], volb [volb$t_vol_t
 1200
1201
1202
1203
1204
1205
1206
1207
1208
1210
1211
1212
1213
1214
1217
1218
1217
1223
1224
1223
1226
1227
                              rtnam [rtnam$v_out_fetched] = true;
                              END:
                            Perform a related file parse to get the final name
                         ! Command line name string ! Related file name
                                           res len, res buf,
                         THEN
                              $exch_signal_return (exch$_badfilename, 3, out_name, .volb [volb$l_vol_type_len], volb [volb$t_vol_type]
                         ! Length of volume ident plus file name
                                                                                                                   Volume name
                 1301
1302
1303
1304
1305
                         $trace_print_fao ('related ''!Af", final ''!Af", .res_len, .res_buf, .fin_len, fin_buf);
                          ! Make sure he isn't trying to move it between devices
                 1306
1307
1308
1309
1310
                          If .volb NEQ .namb [namb$a_assoc_volb]
                              $exch_signal_return (exch$_norendev);
```

```
EXCHERTNAM
                                                              16-Sep-1984 01:21:55
14-Sep-1984 12:29:08
                                                                                      VAX-11 Bliss-32 V4.0-742
LEXCHNG.SRCJEXCRINAM.B32:1
               RT-11 name manipulation routines
                                                                                                                         Page 39 (14)
V04-000
               rtnam_rename_action (res_len, res_buf)
                         We need to make sure that the output name doesn't already exist
 ctx2 = exchSutil_rt11ctx_allocate (.volb, 0); ! Get a context block so we can look
                       If exchartacp_find_file (.ctx2, .rfp [nam$l_name], .nam_len)
                           ent NEQA .ctx2 [rt11ctx$a_ent_address]
                                                                      ! Let him rename it to the same, necessary for RENAME /PROTE
                       THEN
                           $exch_signal (exch$_norenexists, 4, .res_len, .res_buf, .fin_len, fin_buf)
                         Everything is ok, do the rename
                       ELSE
                           BEGIN
                            Convert the name to radix50 and put in into the directory buffer
                           exchSutil_radix50_from_ascii (.rfp [namSb_name], .rfp [namSl_name],
                           Also change the name in the context buffer, since it will be used by EXCH$RTACP_CHECK_POSITION
               ctx [rt]1ctx$l_filename] = .ent [rt]1ent$l_filename];
                           ctx [rt11ctx$w_filetype] = .ent [rt11ent$w_filetype];
                           ! If a protection change was requested, do it here
                           IF .rtnam [rtnam$v_q_protect_explicit]
                               ent [rt11ent$v_typ_protected] = ctx [rt11ctx$v_typ_protected] = .rtnam [rtnam$v_q_protect];
                            Update the directory
                           exch$rt11_dirseg_put (.volb, .ctx [rt11ctx$l_seg_number]);
                                                                                             ! Write the directory segment
                           ! Log the action if requested
                           If .rtnam [rtnam$v_q_log]
                               $exch_signal (exch$_renamed, 4, .res_len, .res_buf, .fin_len, fin_buf);
                           END:
                         Release the context block
                       exchSutil_rt11ctx_release (.ctx2);
                       RETURN true:
                       END:
```

.PSECT EXCHSRTNAM_PLIT, NOWRT, 2

\OUTPUT\<0><0>
17694726

00060 P.AAP: 00068 P.AAO: 00060 00 54 55 50 54 55 4F .ASCII .LONG 00000000 ADDRESS P.AAP

V

							.EXTRN	EXCHS_NORENEXISTS EXCHS_RENAMED	
							.PSECT	EXCHSRTNAM_CODE, NOWRT, 2	
				OF	FC 00000)	.ENTRY	RTNAM_RENAME_ACTION, Save R2,R3,R4,R5,R6,-R7,R8,R9,R10,R11	1197
50	00000000G	5E 56 53	FD90	18	9E 00007 C1 00007 D0 00007 9E 0001		MOVAB ADDL3 MOVL	-624(SP), SP #24, EXCH\$A_GBL, RO (RO), R6	1243 1244
54 50	24	A6 A6	00	1 C 20	C1 00016 C1 0001E		MOVAB ADDL3 ADDL3	#28, 36(R6), R4 #32, 36(R6), R0	1247 1248
		52 51 50	035B00FA 01C2 24	8F 8F A6	00 00020 00 00023 3C 00027 00 00021		MOVL MOVZWL MOVL	(R0) R8 #56295674, R2 #450, R1 36(R6), R0	1249
		57 52 51 50	00000000G 041B00F3 01CC	64 8F 8F	16 00033 00 00039 00 00036 3C 00043		JSB MOVL MOVZWL	EXCH\$UTIL_BLOCK_CHECK (R4) R7 #68878579, R2 #460, R1 R7, R0	1253
		50 52 51 50	00000000G 008200F4 01BC	EF 8F	DO 00048 16 00048 DO 00051 3C 00058 DO 00050		MOVL JSB MOVL MOVZWL MOVL	#8519924, R2 #444, R1	1254
47	20 08	A6 AE	00000000G 04 30	EF 03 AC A6	16 00060 E0 00066 7D 00066 9F 00070 DD 00073		JSB BBS MOVQ PUSHAB PUSHL	R8, R0 EXCHSUTIL_BLOCK_CHECK #3, 32(R6), 2\$ RES_LEN, DÉSC 48(R6) R3	1259 1265 1270
	000000006	EF 54	0000	7E AE CF OS	04 0007 9F 00077 9F 00077 FB 0007E		CLRL PUSHAB PUSHAB CALLS MOVL	-(SP) DESC P.AAO #5, EXCH\$CMD_PARSE_FILESPEC R0, STATUS	
		16 52	000000006	54 8F	E8 00088 D0 00088 BB 00092 DD 00094 DD 00096 FB 00098		BLBS MOVL PUSHR PUSHL	STATUS, 1\$ #EXCHS_PARSEERR, TEMP #^M <r3,r4> #1</r3,r4>	1272
	000000006	00		04	PB 00098 11 00098		PUSHL	TEMP #4. LIB\$SIGNAL 4\$	
1F	6E 20	50 24 A0 A6	30 6E	A6 A0 02	11 0009F 00 000A1 E8 000A5 E0 000A5 B8 000AF 9F 000B6	18:	BRB MOVL BLBS BBS	48(R6), R0 110(R0), 3\$ #2, 110(R0), 3\$ #8, 32(R6) RFP	1273 1278 1280 1284 1290
	20	7E	0110 04 04	A6 008 008 008 008 008 008	9F 000B2 7D 000B2 DD 000B2	28:	BBS BISB2 PUSHAB MOVQ PUSHL	4(R3)	1290 1292 1291
	0000000G	7E 54 10		50	7D 000B6 DD 000B6 3C 000B6 FB 000C6 DO 000C7		MOVZUL	(R3), -(SP)	
		52	00000000G	8F A7	00000 9F 00004	38:	MOVL BLBS MOVL PUSHAB	RO, STATUS STATUS, 5\$ #EXCHS_BADF &LENAME, TEMP 93(R7)	1290 1295

E)

....

•

:

....

XCHSRTNAM 04-000	RT-11 nam	me manipulati	on r	outines len, res_bu	f)		L 10 16-Se 14-Se	0-1984 01:21 0-1984 12:29	1:55	VAX-11 Bliss-32 V4.0-742 CEXCHNG.SRCJEXCRTNAM.B32;1	Page 4
		00000000	00	59	A75550	000	000D7 000DA 000DC 000DE	PUSHL PUSHL PUSHL PUSHL	89(R7) R3 #3 TEMP #5, LI	B\$S1GNAL	
	,		50 51	FEDB	71 CD CD	11 9A 9A	000E7 48: 000E9 58: 000EE	BRB MOVZBL MOVZBL	8\$ RFP+59	. 80	129
	04	6E 00000100	50 A7 8F	04	51 6E AE 13	C1 C1 D1 1B	000F7 000FD 000105	ADDL3 ADDL3 CMPL BLEQU	0.3	, R1 , NAM_LEN N, 10T(R7), FIN_LEN N, #256	129 129
		00000000	7E 00 5B 5A	000000006	8F 01 8F 03 CD	9A DD DD FB	00107 0010B 0010D 00113 0011A 6\$:	PUSHL PUSHL PUSHL CALLS BRB MOVZBL MOVZBL ADDL3 CMPL BLEQU MOVZBL PUSHL CALLS MOVL MOVAB MOVAB MOVC5	#161, #1 #EXCHS #3, LI RFP+76		130
5A		00 69	5A 59 A7	0100 10 65	SF AE A7	9E 2C	0011F 00124 00128	MOVZWL MOVAB MOVC5	#256, FIN BU 1017R7	BADLOGIC B\$STOP , R11 R10 UF, R9 '), 105(R7), #0, R10, (R9)	130
5A		00	59 5A 6B	65 65	69 0E A7 669	18 00 02 20	00130 00132 00136 0013A 0013F	BGEQ ADDL2 SUBL2 MOVC5		(), R9 (), R10 (N, (R11), #0, R10, (R9)	
		74	50 A0	30	A6 57	D0	00140 7\$: 00144 00148	MOVL CMPL REOL	48(R6) R7, 11 9\$		130
		0000000G		000000006	8F 52 01 52	DD FB	0014A 00151 00153 0015A 8\$:	MOVL CMPL BEQL MOVL PUSHL CALLS MOVL	WEXCHS TEMP W1, LI TEMP,	_NORENDEV, TEMP B\$SIGNAL RO	130
		00000000G	EF 53		7E 57 02			RET CLRL PUSHL CALLS	-(SP) R7	CHSUTTI BT11CTY ALLOCATE	131
		00000000	EF	0808	6E 8F 03	D4 DD FB DD BB FB	0016E 00172	PUSHL PUSHR CALLS	NAM LE #^M <r3< td=""><td>X2 N ,R11> CH\$RTACP_FIND_FILE S</td><td>131</td></r3<>	X2 N ,R11> CH\$RTACP_FIND_FILE S	131
		7E	1B A3		A8 14	D1 13	00179 0017C 00181	CMPL BEQL			131
			7E		AE AC 04 8F	9F 00 70 00	00183 00186 00189 0018D	PUSHAB PUSHL MOVQ PUSHL	FIN_BU FIN_LE RES_LE	F N N, -(SP)	131
			52	00000000G 7E 02	8F 73 A8 A2 06 5B	DD 111 DO 9F DD	00195	RET CLRL PUSHL CALLS MOVL PUSHL PUSHAB PUSHAB PUSHL BRB MOVL PUSHL BRB PUSHL PUSHL PUSHL PUSHL PUSHAB PUSHAB	#EXCHS 12\$ 126(R8 2(R2) #6 R11	NORENEXISTS	132
		00000000	7E EF	FEDB 06	5B CD 04 A2	DD 9A FB 9F	001A0 001A2	PUSHL MOVZBL CALLS PUSHAB	R11 RFP+59 #4, EX 6(R2)	CHSUTIL_RADIX50_FROM_ASCII	133

EXCHSRTNAM V04-000	RT-11 name manipulation routines rtnam_rename_action (res_len, res_bu	M 10 16-Sep-1984 01:21:55 VAX-11 Bliss-32 V4.0-742 f) 14-Sep-1984 12:29:08 [EXCHNG.SRC]EXCRINAM.B32;1	Page 42 (14)
39 A8 01 A2	7E FEFO CD 7E FEDC 000000000G EF 06 06 06 06 06 07 07 07 07 07 07 07 07 07 07 07 07 07	03 DD 001B1	1329 1330 1334 1335 1339 1341 1345 1356 1356 1358 1359

; Routine Size: 542 bytes. Routine Base: EXCH\$RTNAM_CODE + 090C

N 10 16-Sep-1984 01:21:55 14-Sep-1984 12:29:08 EXCHSRTNAM RT-11 name manipulation routines rtnam_rename_action (res_len, res_buf) VAX-11 Bliss-32 V4.0-742 CEXCHNG.SRCJEXCRTNAM.B32;1 V04-000 : 1278 : 1279 1360 1 END 1361 0 ELUDOM .EXTRN LIB\$SIGNAL, LIB\$STOP PSECT SUMMARY Name Bytes Attributes RD . EXCHSRTNAM_PLIT EXCHSRTNAM_CODE 112 NOVEC, NOWRT, 2858 NOVEC, NOWRT, EXE, NOSHR, LCL, REL, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) RD . Library Statistics Processing ----- Symbols -----Pages File Percent Total Loaded Mapped Time \$255\$DUA28:[SYSLIB]LIB.L32;1 \$255\$DUA28:[EXCHNG.OBJ]EXCLIB.L32;1 18619 17 1000 00:01.9 COMMAND QUALIFIERS BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:EXCRTNAM/OBJ=OBJ\$:EXCRTNAM MSRC\$:EXCRTNAM/UPDATE=(ENH\$:EXCRTNAM)

E)

Page 43 (15)

2858 code + 112 data bytes 00:49.1 02:32.2 Size: Run Time:

Elapsed Time:

Lines/CPU Min: 1662 Lexemes/CPU-Min: 19137 Memory Used: 217 pages Compilation Complete

0163 AH-BT13A-SE

DIGITAL EQUIPMENT CORPORATION CONFIDENTIAL AND PROPRIETARY

